

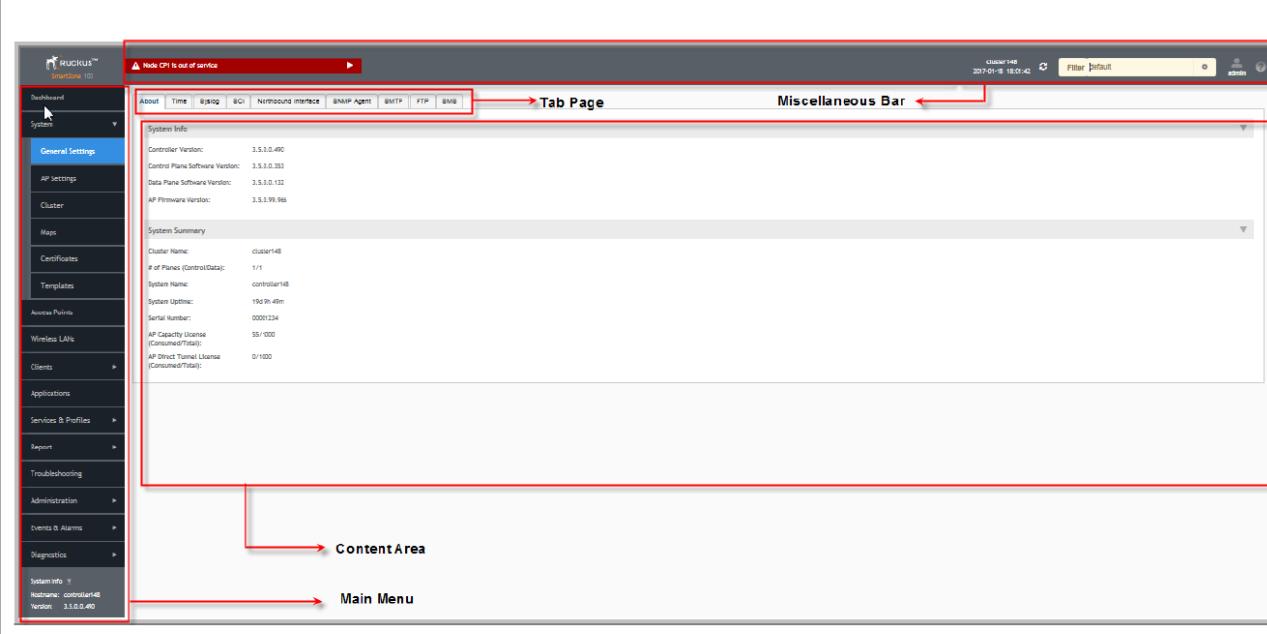
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## **EXHIBIT G**

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Claim 1	
<p><b>A Web-based management engine for a network entity, comprising:</b></p>	<p>Ruckus systems, for example, the SmartZone300, SmartZone100 and/or the SmartZone300 or SmartZone100 in conjunction with Ruckus access points, routers, and/or switches, provide a Web-based management engine for a network entity (e.g., the SmartZone device and/or one or more Ruckus access points, routers, or switches). As shown below, the systems utilize a web management interface.</p> <div data-bbox="552 433 1608 1249" style="border: 1px solid black; padding: 10px;"><h3 style="color: orange; text-align: center;">NETWORK CONTROLLER</h3><p>Digital lifestyles sustained through mobile devices and applications, allow everyone to be more connected and productive, but concurrently intensify demands on operators, service providers and enterprises to improve network performance.</p><p>RUCKUS SmartZone network controllers simplify the complexity of scaling and managing wired switches, and wireless access points through a common interface to support private-cloud network-as-a-service (NaaS) offerings in addition to general enterprise networks. <u>All physical and virtual SmartZone appliances</u> support network configuration, monitoring, provisioning, discovery, planning, troubleshooting, performance management, security and reporting. SmartZone's single, user-friendly web interface handles network visibility from the wireless edge to the network core and enabled IT administrators to perform day to day management tasks, troubleshoot user connectivity problems and define and monitor user and application policies without requiring advanced network skills and CLI expertise.</p></div> <p>Source: SmartZone Data Sheet, p. 1</p>

Claim 1	
<p><b>A Web-based management engine for a network entity, comprising:</b></p>	<p><b>The Ruckus systems utilize a web interface to manage network entities (e.g., Ruckus SmartZone devices, access points, routers, and/or switches).</b></p> <div data-bbox="476 447 1697 923" style="border: 1px solid black; padding: 10px;"><h2 style="color: orange; text-align: center;">Web Interface Features</h2><p style="text-align: center;"><u>The web interface is the primary graphical front end for the controller and is the primary interface</u></p><p style="text-align: center;">You can use it to:</p><ul style="list-style-type: none"><li>• Manage access points and WLANs</li><li>• Create and manage users and roles</li><li>• Monitor wireless clients, managed devices, and rogue access points</li><li>• View alarms, events, and administrator activity</li><li>• Generate reports</li><li>• Perform administrative tasks, including backing up and restoring system configuration, upgrading the cluster, downloading support, performing system diagnostic tests, viewing the status of controller processes, and uploading additional licenses (among others)</li></ul></div> <p>Source: SmartZone Administrator Guide at p. 16</p>

Claim 1	
<p><b>A Web-based management engine for a network entity, comprising:</b></p>	<p><b>Below is an example of the SmartZone web-based interface.</b></p> <p><b>FIGURE 1 Controller Web Interface Features</b></p>  <p>Source: SmartZone Administrator Guide at p. 17</p>

Claim 1	
<p><b>an intelligent agent that obtains information about at least one operational parameter of the network entity and/or modifies the behavior of the network entity, the intelligent agent interacting with the network entity in accordance with a predetermined data structure;</b></p>	<p>The Ruckus systems utilize an intelligent agent that is used to obtain information about at least one operational parameter of the network entity and/or modify its behavior. For example, the SmartZone includes an internal SNMP agent, which is an intelligent agent.</p> <div data-bbox="514 400 1729 1038" style="border: 1px solid black; padding: 10px;"><h3 data-bbox="524 407 1167 447">Enabling Global SNMP Notifications</h3><p data-bbox="524 462 1710 544">The controller supports the Simple Network Management Protocol (SNMP v2 and v3), which allows you to query controller information, such as system status, AP list, etc., and to set a number of system settings using a Network Management System (NMS) or SNMP MIB browser.</p><p data-bbox="524 563 1480 584">You can also enable SNMP traps to receive immediate notifications for possible AP and system issues.</p><p data-bbox="524 601 1720 684">The procedure for enabling the <u>internal SNMP agents</u> depends on whether your network is using SNMPv2 or SNMPv3. SNMPv3 mainly provides security enhancements over the earlier version, and therefore requires you to enter authorization passwords and encryption settings, instead of simple clear text community strings.</p><p data-bbox="524 701 1691 783">Both SNMPv2 and SNMPv3 can be enabled at the same time. The SNMPv3 framework provides backward compatibility for SNMPv1 and SNMPv2c management applications so that existing management applications can still be used to manage the controller with SNMPv3 enabled.</p><h4 data-bbox="524 832 879 864">Configuring SNMP v2 Agent</h4><p data-bbox="524 879 885 901">To configure SNMP v2 Agent settings:</p><ol data-bbox="572 918 1576 1023" style="list-style-type: none"><li data-bbox="572 918 1077 940">1. Go to <b>System &gt; General Settings &gt; <u>SNMP Agent</u></b>.</li><li data-bbox="572 957 1480 979">2. Select the <b>Enable SNMP Notifications Globally</b> check box to send out notification messages.</li><li data-bbox="572 996 1576 1018">3. To configure the SNMPv2 Agent, click <b>Create</b> and update the details as explained in the following table.</li></ol></div> <p data-bbox="462 1254 1090 1283">Source: SmartZone Administrator Guide at p. 42</p>

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<p><b>an intelligent agent that obtains information about at least one operational parameter of the network entity and/or modifies the behavior of the network entity, the intelligent agent interacting with the network entity in accordance with a predetermined data structure;</b></p>	<p><b>Additionally, or alternatively, Ruckus's SmartZone-managed network entities, including Ruckus wireless Access Points are configured to be managed using the SmartZone</b></p> <div data-bbox="539 328 1653 1225" style="border: 1px solid black; padding: 10px;"> <h2 style="text-align: center;">Overview of the Ruckus Wireless AP</h2> <p>Congratulations on your purchase of the Ruckus Wireless AP! Ruckus Wireless APs are the industry's most easy to use, yet robust and feature-rich Wi-Fi APs designed to bring power and simplicity together for large-scale indoor deployments.</p> <p>Your Ruckus Wireless AP uses BeamFlex, a patented antenna technology from Ruckus Wireless that allows wireless signals to navigate around interference, extend wireless signal range, and increase speeds and capacity for wireless networks. The BeamFlex antenna system consists of an array of high-gain directional antenna elements that allow Ruckus Wireless APs to find quality signal paths in a changing environment, and sustain the baseline performance required for supporting data, audio and video applications.</p> <p>Your Ruckus Wireless AP can be deployed in standalone mode with or without a <u>FlexMaster (FM)</u> manager, or as part of the Ruckus Wireless Smart WLAN system, in which it can be managed by <u>SmartCell Gateway (SCG)</u>, <u>virtual SmartCell Gateway (vSCG)</u>, <u>SmartZone (SZ)</u>, <u>ZoneDirector (ZD)</u>, and <u>Smart Access Management service (SAMs)</u> controllers.</p> <hr/> <p><b>NOTE</b> For more information on the Ruckus Wireless system (including SCG, vSCG, SZ, ZD, SAMs and FM), BeamFlex, the Ruckus Wireless controller operating system (RuckOS), and other Ruckus Wireless technologies, visit <a href="http://www.ruckuswireless.com">www.ruckuswireless.com</a></p> </div>

Source: Ruckus Access Point User Guide, p. 11

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<p><b>an intelligent agent that obtains information about at least one operational parameter of the network entity and/or modifies the behavior of the network entity, the intelligent agent interacting with the network entity in accordance with a predetermined data structure;</b></p>	<p>The SmartZone-managed network entities are configured to be managed using SNMP. Thus, the entities include an SNMP agent, which is an intelligent agent.</p> <div data-bbox="597 390 1585 822" style="border: 1px solid black; padding: 10px;"><p><b><u>Configuring the AP for Management by a SmartCell Gateway (SCG), virtual SmartCell Gateway (vSCG), or SmartZone (SZ) Controller</u></b></p><p>When your Ruckus Wireless network is managed by an SCG, vSCG or SZ controller, you can manage APs using the controller rather than individually logging into each AP's Web interface.</p><p>If SCG, vSCG or SZ controllers are installed on the network, then follow the SCG, vSCG or SZ instructions to configure the controller, and then connect the AP to your network. The AP finds the SCG, vSCG or SZ, and then downloads the SCG-, vSCG- or SZ-compatible AP firmware from the SCG, vSCG or SZ controller.</p></div> <div data-bbox="597 918 1585 1023" style="border: 1px solid black; padding: 10px;"><p>3 If you want to use TR-069 or <u>SNMP</u> to manage the AP, configure the settings listed in <a href="#">Table 46</a>.</p></div> <p>Source: Ruckus Access Point User Guide, pp. 91, 150</p>

Claim 1																																																											
<p><b>an intelligent agent that obtains information about at least one operational parameter of the network entity and/or modifies the behavior of the network entity, the intelligent agent interacting with the network entity in accordance with a predetermined data structure;</b></p>	<p><b>Network entities that are configured to be managed by SmartZone include the following examples:</b></p> <table> <thead> <tr> <th data-bbox="846 328 904 342">Device</th> <th data-bbox="994 328 1032 342">Source</th> </tr> </thead> <tbody> <tr> <td data-bbox="846 344 904 358">Ruckus C110</td><td data-bbox="994 344 1282 358"><a href="http://www.ruckussecurity.com/ZoneFlex-C110.asp">http://www.ruckussecurity.com/ZoneFlex-C110.asp</a></td></tr> <tr> <td data-bbox="846 358 904 372">Ruckus E510</td><td data-bbox="994 358 1282 372"><a href="http://www.ruckussecurity.com/ZoneFlex-E510.asp">http://www.ruckussecurity.com/ZoneFlex-E510.asp</a></td></tr> <tr> <td data-bbox="846 372 904 387">Ruckus H320</td><td 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Claim 1	
<p><b>an intelligent agent that obtains information about at least one operational parameter of the network entity and/or modifies the behavior of the network entity, the intelligent agent interacting with the network entity in accordance with a predetermined data structure;</b></p>	<p>The intelligent agent is used to obtain information about at least one operational parameter of the network entity and modify its behavior. For example, the SNMP agent uses the SNMP protocol for monitoring and management of the network entity (e.g., Ruckus's SmartZone controllers, switches, access points, and routers). In an SNMP based management system, an SNMP agent is present on a managed network entity to convey device data within the Ruckus system. Further, the intelligent agent interacts with the network entity in accordance with a predetermined data structure, such data structured according to the management information base ("MIB") specifications of the SNMP protocol (i.e., "MIBs")..</p> <div data-bbox="635 515 1595 1260" style="border: 1px solid black; padding: 10px;"> <p><b>NETWORK CONTROLLER</b></p> <p>Digital lifestyles sustained through mobile devices and applications, allow everyone to be more connected and productive, but concurrently intensify demands on operators, service providers and enterprises to improve network performance.</p> <p>RUCKUS SmartZone network controllers simplify the complexity of scaling and managing wired switches, and wireless access points through a common interface to support private-cloud network-as-a-service (NaaS) offerings in addition to general enterprise networks. All physical and virtual SmartZone appliances support network configuration, monitoring, provisioning, discovery, planning, troubleshooting, performance management, security and reporting. SmartZone's single, user-friendly web interface handles network visibility from the wireless edge to the network core and enabled IT administrators to perform day to day management tasks, troubleshoot user connectivity problems and define and monitor user and application policies without requiring advanced network skills and CLI expertise.</p> </div> <p>Source: SmartZone Data Sheet, p. 1</p>

Claim 1	
<p><b>an intelligent agent that obtains information about at least one operational parameter of the network entity and/or modifies the behavior of the network entity, the intelligent agent interacting with the network entity in accordance with a predetermined data structure;</b></p>	<p><b>Below shows examples of the Ruckus system obtaining information from and/or modifying the behavior of a network entity.</b></p> <div data-bbox="501 577 1729 1009" style="border: 1px solid black; padding: 10px;"><h3 style="color: orange; margin: 0;">Enabling Global SNMP Notifications</h3><p>The controller supports the Simple Network Management Protocol (SNMP v2 and v3), which allows you to <u>query controller information, such as system status, AP list, etc., and to set a number of system settings</u> using a Network Management System (NMS) or SNMP MIB browser.</p><p><u>You can also enable SNMP traps to receive immediate notifications for possible AP and system issues.</u></p><p>The procedure for enabling the internal SNMP agents depends on whether your network is using SNMPv2 or SNMPv3. SNMPv3 mainly provides security enhancements over the earlier version, and therefore requires you to enter authorization passwords and encryption settings, instead of simple clear text community strings.</p><p>Both SNMPv2 and SNMPv3 can be enabled at the same time. The SNMPv3 framework provides backward compatibility for SNMPv1 and SNMPv2c management applications so that existing management applications can still be used to manage the controller with SNMPv3 enabled.</p></div> <p>Source: SmartZone Administrator Guide at p. 42</p>

Claim 1	
<p><b>an intelligent agent that obtains information about at least one operational parameter of the network entity and/or modifies the behavior of the network entity, the intelligent agent interacting with the network entity in accordance with a predetermined data structure;</b></p>	<p>The excerpt below shows another example of the intelligent agent obtaining information about at least one operational parameter of the network entity (e.g., to display on the web interface) and modifying the behavior of the network entity (e.g., by enabling/disabling an SNMP trap or configuring other SNMP settings).</p> <div data-bbox="520 457 769 505" style="border: 1px solid black; padding: 10px; text-align: center;"><h2>Overview</h2><p>This document describes the SNMP management information bases (MIBs) that the controller supports. It also describes the overall design of the controller SNMP agent. <u>The Smart Zone SNMP agent allows its northbound portal application to monitor the system via SNMP GET operation.</u> It also notifies the critical events by sending traps. The Smart Zone supports V2c community and V3 user versions of SNMP. <u>It also supports configuring the system via SNMP SET from this release.</u> See <a href="#">Updating SNMP V2 and V3 Configuration Flow</a> and <a href="#">SNMP Logs</a> on page 24.</p><p><b>NOTE</b></p><p>For information on how to <u>enable SNMP traps and configure the SNMP V2 and V3 settings on the controller web interface</u>, refer to the <a href="#">Administrator Guide for SmartZone 3.1.1</a>.</p></div> <p>Source: SmartZone SNMP Reference Guide, p. 23.</p>

Claim 1											
<p><b>an intelligent agent that obtains information about at least one operational parameter of the network entity and/or modifies the behavior of the network entity, the intelligent agent interacting with the network entity in accordance with a predetermined data structure;</b></p>	<p>The intelligent agent interacts with the network entity in accordance with a predetermined data structure (e.g., a MIB data structure). For example, the object identifier shown in the table below is related to the predetermined data structure (e.g., MIB).</p> <div data-bbox="481 361 1013 649" style="border: 1px solid black; padding: 10px;"> <h2 style="color: orange; text-align: center;">Standard MIB</h2> <p>Standard MIBs that the controller supports include:</p> <ul style="list-style-type: none"> <li>• <a href="#">Host Resource MIB</a> on page 26</li> <li>• <a href="#">UCD MIB</a> on page 27</li> <li>• <a href="#">SNMPv2 MIB (RFC3418)</a> on page 27</li> <li>• <a href="#">RFC1213 MIB (RFC1213)</a> on page 27</li> </ul> </div> <div data-bbox="481 707 1436 1192" style="border: 1px solid black; padding: 10px;"> <h2 style="color: orange; text-align: center;">ruckusSZSystemMiscEventTrap</h2> <p><b>TABLE 4 ruckusSZSystemMiscEventTrap</b></p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr style="background-color: #ffcc99;"> <td style="width: 25%;">Object Name</td><td>ruckusSZSystemMiscEventTrap</td></tr> <tr> <td>Object Identifier</td><td>.1.3.6.1.4.1.25053.2.11.1.1</td></tr> <tr> <td>Bindings</td><td>ruckusSZEEventSeverity ruckusSZEEventCode ruckusSZEEventType ruckusSZEEventDescription</td></tr> <tr> <td>Description</td><td>Generic trap triggered by administrator specified miscellaneous event. The event severity, event code, event type, event description are displayed.</td></tr> <tr> <td>Generated by Event Code</td><td>Refer to <a href="#">SmartZone Event Traps</a> on page 257 - <a href="#">ruckusSZSystemMiscEventTrap</a> on page 257</td></tr> </table> </div> <p>Source: SmartZone SNMP Reference Guide, p. 26, 49.</p>	Object Name	ruckusSZSystemMiscEventTrap	Object Identifier	.1.3.6.1.4.1.25053.2.11.1.1	Bindings	ruckusSZEEventSeverity ruckusSZEEventCode ruckusSZEEventType ruckusSZEEventDescription	Description	Generic trap triggered by administrator specified miscellaneous event. The event severity, event code, event type, event description are displayed.	Generated by Event Code	Refer to <a href="#">SmartZone Event Traps</a> on page 257 - <a href="#">ruckusSZSystemMiscEventTrap</a> on page 257
Object Name	ruckusSZSystemMiscEventTrap										
Object Identifier	.1.3.6.1.4.1.25053.2.11.1.1										
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Claim 1																																																			
<p><b>an intelligent agent that obtains information about at least one operational parameter of the network entity and/or modifies the behavior of the network entity, the intelligent agent interacting with the network entity in accordance with a predetermined data structure;</b></p>	<p><b>Below is further examples of the intelligent agent interacting with the network entity in accordance with a MIB data structure.</b></p> <div data-bbox="591 328 1551 1249"> <h2 data-bbox="602 336 852 375">Introduction</h2> <p data-bbox="602 390 1461 410">The objects contained in the RUCKUS-SZ-EVENT-MIB group provide information about the controller supported traps.</p> <p data-bbox="668 429 718 446"><b>NOTE</b></p> <p data-bbox="668 449 1224 469">For details on alarms and events refer to <i>SmartZone Alarms and Events Guide</i>.</p> <h2 data-bbox="602 515 961 554">Ruckus Event Trap</h2> <p data-bbox="602 568 1288 588">The following table lists the MIB, OID, and description of each object in the RUCKUS-SZ group.</p> <table border="1" data-bbox="602 606 1543 1244"> <thead> <tr> <th data-bbox="602 606 1178 627">Trap Name</th><th data-bbox="1178 606 1543 627">Object Identifier</th></tr> </thead> <tbody> <tr> <td data-bbox="602 627 1178 649"><a href="#">ruckusSZSystemMiscEventTrap</a> on page 49</td><td data-bbox="1178 627 1543 649">.1.3.6.1.4.1.25053.2.11.1.1</td></tr> <tr> <td data-bbox="602 649 1178 671"><a href="#">ruckusSZUpgradeSuccessTrap</a> on page 49</td><td data-bbox="1178 649 1543 671">.1.3.6.1.4.1.25053.2.11.1.2</td></tr> <tr> <td data-bbox="602 671 1178 692"><a href="#">ruckusSZUpgradeFailedTrap</a> on page 50</td><td data-bbox="1178 671 1543 692">.1.3.6.1.4.1.25053.2.11.1.3</td></tr> <tr> <td data-bbox="602 692 1178 714"><a href="#">ruckusSZNodeRestartedTrap</a> on page 50</td><td data-bbox="1178 692 1543 714">.1.3.6.1.4.1.25053.2.11.1.4</td></tr> <tr> <td data-bbox="602 714 1178 735"><a href="#">ruckusSZNodeShutdownTrap</a> on page 51</td><td data-bbox="1178 714 1543 735">.1.3.6.1.4.1.25053.2.11.1.5</td></tr> <tr> <td data-bbox="602 735 1178 757"><a href="#">ruckusSZCPUUsageThresholdExceededTrap</a> on page 51</td><td data-bbox="1178 735 1543 757">.1.3.6.1.4.1.25053.2.11.1.6</td></tr> <tr> <td data-bbox="602 757 1178 779"><a href="#">ruckusSZMemoryUsageThresholdExceededTrap</a> on page 52</td><td data-bbox="1178 757 1543 779">.1.3.6.1.4.1.25053.2.11.1.7</td></tr> <tr> <td data-bbox="602 779 1178 800"><a href="#">ruckusSZDiskUsageThresholdExceededTrap</a> on page 52</td><td data-bbox="1178 779 1543 800">.1.3.6.1.4.1.25053.2.11.1.8</td></tr> <tr> <td data-bbox="602 800 1178 822"><a href="#">ruckusSZLicenseUsageThresholdExceededTrap</a> on page 53</td><td data-bbox="1178 800 1543 822">.1.3.6.1.4.1.25053.2.11.1.19</td></tr> <tr> <td data-bbox="602 822 1178 843"><a href="#">ruckusSZAPMiscEventTrap</a> on page 53</td><td data-bbox="1178 822 1543 843">.1.3.6.1.4.1.25053.2.11.1.20</td></tr> <tr> <td data-bbox="602 843 1178 865"><a href="#">ruckusSZAPConnectedTrap</a> on page 54</td><td data-bbox="1178 843 1543 865">.1.3.6.1.4.1.25053.2.11.1.21</td></tr> <tr> <td data-bbox="602 865 1178 887"><a href="#">ruckusSZAPDeletedTrap</a> on page 54</td><td data-bbox="1178 865 1543 887">.1.3.6.1.4.1.25053.2.11.1.22</td></tr> <tr> <td data-bbox="602 887 1178 908"><a href="#">ruckusSZAPDisconnectedTrap</a> on page 55</td><td data-bbox="1178 887 1543 908">.1.3.6.1.4.1.25053.2.11.1.23</td></tr> <tr> <td data-bbox="602 908 1178 930"><a href="#">ruckusSZAPLostHeartbeatTrap</a> on page 55</td><td data-bbox="1178 908 1543 930">.1.3.6.1.4.1.25053.2.11.1.24</td></tr> <tr> <td data-bbox="602 930 1178 951"><a href="#">ruckusSZAPRebootTrap</a> on page 56</td><td data-bbox="1178 930 1543 951">.1.3.6.1.4.1.25053.2.11.1.25</td></tr> <tr> <td data-bbox="602 951 1178 973"><a href="#">ruckusSZACriticalAPConnectedTrap</a> on page 56</td><td data-bbox="1178 951 1543 973">.1.3.6.1.4.1.25053.2.11.1.26</td></tr> <tr> <td data-bbox="602 973 1178 995"><a href="#">ruckusSZACriticalAPDisconnectedTrap</a> on page 57</td><td data-bbox="1178 973 1543 995">.1.3.6.1.4.1.25053.2.11.1.27</td></tr> <tr> <td data-bbox="602 995 1178 1016"><a href="#">ruckusSZAPRejectedTrap</a> on page 58</td><td data-bbox="1178 995 1543 1016">.1.3.6.1.4.1.25053.2.11.1.28</td></tr> <tr> <td data-bbox="602 1016 1178 1038"><a href="#">ruckusSZAPConfUpdateFailedTrap</a> on page 58</td><td data-bbox="1178 1016 1543 1038">.1.3.6.1.4.1.25053.2.11.1.29</td></tr> <tr> <td data-bbox="602 1038 1178 1059"><a href="#">ruckusSZAPConfUpdatedTrap</a> on page 59</td><td data-bbox="1178 1038 1543 1059">.1.3.6.1.4.1.25053.2.11.1.30</td></tr> <tr> <td data-bbox="602 1059 1178 1081"><a href="#">ruckusSZAPSwapOutModelDiffTrap</a> on page 59</td><td data-bbox="1178 1059 1543 1081">.1.3.6.1.4.1.25053.2.11.1.31</td></tr> <tr> <td data-bbox="602 1081 1178 1103"><a href="#">ruckusSZAPPreProvisionModelDiffTrap</a> on page 60</td><td data-bbox="1178 1081 1543 1103">.1.3.6.1.4.1.25053.2.11.1.32</td></tr> <tr> <td data-bbox="602 1103 1178 1124"><a href="#">ruckusSZAPFirmwareUpdateFailedTrap</a> on page 61</td><td data-bbox="1178 1103 1543 1124">.1.3.6.1.4.1.25053.2.11.1.34</td></tr> <tr> <td data-bbox="602 1124 1178 1146"><a href="#">ruckusSZAPFirmwareUpdatedTrap</a> on page 61</td><td data-bbox="1178 1124 1543 1146">.1.3.6.1.4.1.25053.2.11.1.35</td></tr> </tbody> </table> <p data-bbox="481 1264 1128 1293">Source: SmartZone SNMP Reference Guide, p. 45.</p> </div>	Trap Name	Object Identifier	<a href="#">ruckusSZSystemMiscEventTrap</a> on page 49	.1.3.6.1.4.1.25053.2.11.1.1	<a href="#">ruckusSZUpgradeSuccessTrap</a> on page 49	.1.3.6.1.4.1.25053.2.11.1.2	<a href="#">ruckusSZUpgradeFailedTrap</a> on page 50	.1.3.6.1.4.1.25053.2.11.1.3	<a href="#">ruckusSZNodeRestartedTrap</a> on page 50	.1.3.6.1.4.1.25053.2.11.1.4	<a href="#">ruckusSZNodeShutdownTrap</a> on page 51	.1.3.6.1.4.1.25053.2.11.1.5	<a href="#">ruckusSZCPUUsageThresholdExceededTrap</a> on page 51	.1.3.6.1.4.1.25053.2.11.1.6	<a href="#">ruckusSZMemoryUsageThresholdExceededTrap</a> on page 52	.1.3.6.1.4.1.25053.2.11.1.7	<a href="#">ruckusSZDiskUsageThresholdExceededTrap</a> on page 52	.1.3.6.1.4.1.25053.2.11.1.8	<a href="#">ruckusSZLicenseUsageThresholdExceededTrap</a> on page 53	.1.3.6.1.4.1.25053.2.11.1.19	<a href="#">ruckusSZAPMiscEventTrap</a> on page 53	.1.3.6.1.4.1.25053.2.11.1.20	<a href="#">ruckusSZAPConnectedTrap</a> on page 54	.1.3.6.1.4.1.25053.2.11.1.21	<a href="#">ruckusSZAPDeletedTrap</a> on page 54	.1.3.6.1.4.1.25053.2.11.1.22	<a href="#">ruckusSZAPDisconnectedTrap</a> on page 55	.1.3.6.1.4.1.25053.2.11.1.23	<a href="#">ruckusSZAPLostHeartbeatTrap</a> on page 55	.1.3.6.1.4.1.25053.2.11.1.24	<a href="#">ruckusSZAPRebootTrap</a> on page 56	.1.3.6.1.4.1.25053.2.11.1.25	<a href="#">ruckusSZACriticalAPConnectedTrap</a> on page 56	.1.3.6.1.4.1.25053.2.11.1.26	<a href="#">ruckusSZACriticalAPDisconnectedTrap</a> on page 57	.1.3.6.1.4.1.25053.2.11.1.27	<a href="#">ruckusSZAPRejectedTrap</a> on page 58	.1.3.6.1.4.1.25053.2.11.1.28	<a href="#">ruckusSZAPConfUpdateFailedTrap</a> on page 58	.1.3.6.1.4.1.25053.2.11.1.29	<a href="#">ruckusSZAPConfUpdatedTrap</a> on page 59	.1.3.6.1.4.1.25053.2.11.1.30	<a href="#">ruckusSZAPSwapOutModelDiffTrap</a> on page 59	.1.3.6.1.4.1.25053.2.11.1.31	<a href="#">ruckusSZAPPreProvisionModelDiffTrap</a> on page 60	.1.3.6.1.4.1.25053.2.11.1.32	<a href="#">ruckusSZAPFirmwareUpdateFailedTrap</a> on page 61	.1.3.6.1.4.1.25053.2.11.1.34	<a href="#">ruckusSZAPFirmwareUpdatedTrap</a> on page 61	.1.3.6.1.4.1.25053.2.11.1.35
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Claim 1	
<p><b>a data store storing data relating to a procedure for managing the at least one operational parameter of the network entity;</b></p>	<p>The Ruckus system utilizes a data store (e.g., memory) storing data relating to a procedure for managing the at least one operational parameter of the network (for example, data stored in the form of MIBs).</p> <div data-bbox="514 414 1762 856" style="border: 1px solid black; padding: 10px;"><h2 style="color: orange; text-align: center;">Ruckus System MIB</h2><hr/><ul style="list-style-type: none"><li>▪ <a href="#">Introduction</a>..... 141</li><li>▪ <a href="#">Ruckus System Command (SysCommands)</a>..... 143</li><li>▪ <a href="#">Ruckus Controller System Node Table</a>..... 144</li><li>▪ <a href="#">Ruckus Controller Zone Table</a>..... 148</li></ul><h3 style="color: orange; text-align: center;">Introduction</h3><p style="text-align: center;">The objects contained in the RUCKUS-SZ-SYSTEM-MIB provide information about the controller system, including its WLAN traffic, managed APs, wireless clients associated with the managed APs, and CPU and memory utilization. The following are the MIB definition system level statistics nodes for RUCKUS-SZ-SYSTEM-MIB.</p></div>

Source: SmartZone SNMP Reference Guide, p. 141.

Claim 1	
<p>a Web server that provides an interactive environment to manage the at least one operational parameter of the network entity, and</p>	<p>The Ruckus system utilizes a web server (e.g. a server hosting the software used for the web interface) that provides an interactive environment (e.g. the web interface presented to a user through a web browser) to manage the at least one operational parameter of the network entity (e.g., enabling/disabling an SNMP trap or configuring other SNMP-related settings). For example, the excerpt below shows that the Ruckus SmartZone controllers include a web server.</p> <div data-bbox="481 760 1768 1211" style="border: 1px solid black; padding: 10px;"><h2>Logging On to the Web Interface</h2><p>Before you can log on to the controller web interface, you must have the IP address that you assigned to the Management (Web) interface when you set up the controller on the network using the Setup Wizard.</p><p>Once you have this IP address, you can access the web interface on any computer that can reach the Management (Web) interface on the IP network.</p><p>Follow these steps to log on to the controller web interface.</p><ol style="list-style-type: none"><li>1. On a computer that is on the same subnet as the Management (Web) interface, start a web browser.</li></ol><p>Supported web browsers include:</p><ul style="list-style-type: none"><li>• Google Chrome 47 and later (recommended)</li><li>• Safari 7 and later (Mac OS)</li><li>• Mozilla Firefox 44 and later</li></ul></div> <p>Source: SmartZone Administrator Guide at p. 15</p>

Claim 1	<p>a Web server that provides an interactive environment to manage the at least one operational parameter of the network entity, and</p> <p>As an example, the Web server provides the interactive environment shown below to manage the at least one operational parameter of the network entity.</p> <div data-bbox="493 482 1077 505" style="border: 1px solid black; padding: 5px;"><b>FIGURE 1 Controller Web Interface Features</b></div> <div data-bbox="493 550 1766 1133"><p>The screenshot shows the Ruckus SmartZone Controller Web Interface. The left sidebar contains a main menu with items like Dashboard, System, General Settings, AP Settings, Cluster, Maps, Certificates, Templates, Access Points, Wireless LANs, Clients, Applications, Services &amp; Profiles, Reports, Troubleshooting, Administration, Events &amp; Alarms, and Diagnostics. A red box highlights the 'Main Menu' in the bottom left of the sidebar. The top header includes a red banner with the text 'Node CPU is out of service', a tab bar with 'About', 'Time', 'Bridged', 'BSSID', 'Nondirect Interface', 'SNMP Agent', 'SMTP', 'FTP', and 'SMB', and a 'Miscellaneous Bar' on the right. A red box highlights the 'Tab Page' in the top header. The central content area displays 'System Info' with details such as Controller Version (3.5.0.0.490), Control Plane Software Version (3.5.0.0.351), Data Plane Software Version (3.5.0.0.132), and AP Firmware Version (3.5.1.99.998). Below this is a 'System Summary' section with information like Cluster Name (cluster148), System Name (controller148), System Uptime (190:39:45m), Serial Number (00001234), AP Capacity License (Consumed/Total: 59/1000), and AP Direct Tunnel License (Consumed/Total: 0/1000). A red box highlights the 'Content Area' in the center. Arrows point from the labels 'Main Menu', 'Content Area', 'Tab Page', 'Miscellaneous Bar', and 'System Info' to their respective parts of the interface.</p></div>
	<p>Source: SmartZone Administrator Guide at p. 17</p>

Claim 1	
<p>a Web server that provides an interactive environment to manage the at least one operational parameter of the network entity, and</p>	<p>The Web-server, via the web interface, provides an interactive environment (e.g., input boxes, check boxes, buttons, drop-down menus, etc.) to manage at least one operational parameter (e.g., SNMP-related settings, such as enabling SNMP traps, configuring SNMP settings, and enabling SNMP notifications, as shown in the excerpts below) of the network entity.</p> <div data-bbox="520 400 769 447" style="border: 1px solid black; padding: 5px;"><h2>Overview</h2></div> <p>This document describes the SNMP management information bases (MIBs) that the controller supports. It also describes the overall design of the controller SNMP agent. The Smart Zone SNMP agent allows its northbound portal application to monitor the system via SNMP GET operation. It also notifies the critical events by sending traps. The Smart Zone supports V2c community and V3 user versions of SNMP. It also supports configuring the system via SNMP SET from this release. See <a href="#">Updating SNMP V2 and V3 Configuration Flow and SNMP Logs</a> on page 24.</p> <p><b>NOTE</b> For information on how to <u>enable SNMP traps and configure the SNMP V2 and V3 settings on the controller web interface</u>, refer to the <i>Administrator Guide for SmartZone 3.1.1</i>.</p> <p>Source: SmartZone SNMP Reference Guide, p. 23.</p> <div data-bbox="520 889 936 928" style="border: 1px solid black; padding: 5px;"><h2>Configuring SNMP v2 Agent</h2></div> <p>To configure SNMP v2 Agent settings:</p> <ol style="list-style-type: none"><li>1. Go to <b>System &gt; General Settings &gt; SNMP Agent</b>.</li><li>2. Select the <b>Enable SNMP Notifications Globally</b> <u>check box</u> to send out notification messages.</li><li>3. To configure the SNMPv2 Agent, click <b>Create</b> and update the details as explained in the following table.</li></ol> <p>Source: SmartZone Administrator Guide at p. 42</p>

Claim 1	
<p><b>an interface that communicates values of the at least one operational parameter between the Web server and the intelligent agent in accordance with the predetermined data structure,</b></p>	<p>The Ruckus systems utilize an interface that communicates values of the at least one operation parameter between the Web server (e.g., the server hosting the web interface) and the intelligent agent (e.g., the SNMP agent) with a predetermined data structure (e.g. data structures utilized in an SNMP management system such as MIBs).</p> <div data-bbox="462 400 1543 779" style="border: 1px solid black; padding: 10px;"><h3>Enabling Global SNMP Notifications</h3><p>The controller supports the Simple Network Management Protocol (SNMP v2 and v3), which allows you to query controller information, such as system status, AP list, etc., and to set a number of system settings using a Network Management System (NMS) or SNMP MIB browser.</p><p>You can also enable SNMP traps to receive immediate notifications for possible AP and system issues.</p><p>The procedure for enabling the internal SNMP agents depends on whether your network is using SNMPv2 or SNMPv3. SNMPv3 mainly provides security enhancements over the earlier version, and therefore requires you to enter authorization passwords and encryption settings, instead of simple clear text community strings.</p><p>Both SNMPv2 and SNMPv3 can be enabled at the same time. The SNMPv3 framework provides backward compatibility for SNMPv1 and SNMPv2c management applications so that existing management applications can still be used to manage the controller with SNMPv3 enabled.</p></div> <div data-bbox="462 836 1543 1254" style="border: 1px solid black; padding: 10px;"><h3>Web Interface Features</h3><p>The web interface is the primary graphical front end for the controller and is the primary interface</p><p>You can use it to:</p><ul style="list-style-type: none"><li>• Manage access points and WLANs</li><li>• Create and manage users and roles</li><li>• Monitor wireless clients, managed devices, and rogue access points</li><li>• View alarms, events, and administrator activity</li><li>• Generate reports</li><li>• Perform administrative tasks, including backing up and restoring system configuration, upgrading the cluster, downloading support, performing system diagnostic tests, viewing the status of controller processes, and uploading additional licenses (among others)</li></ul></div>

Source: SmartZone Administrator Guide at p. 42

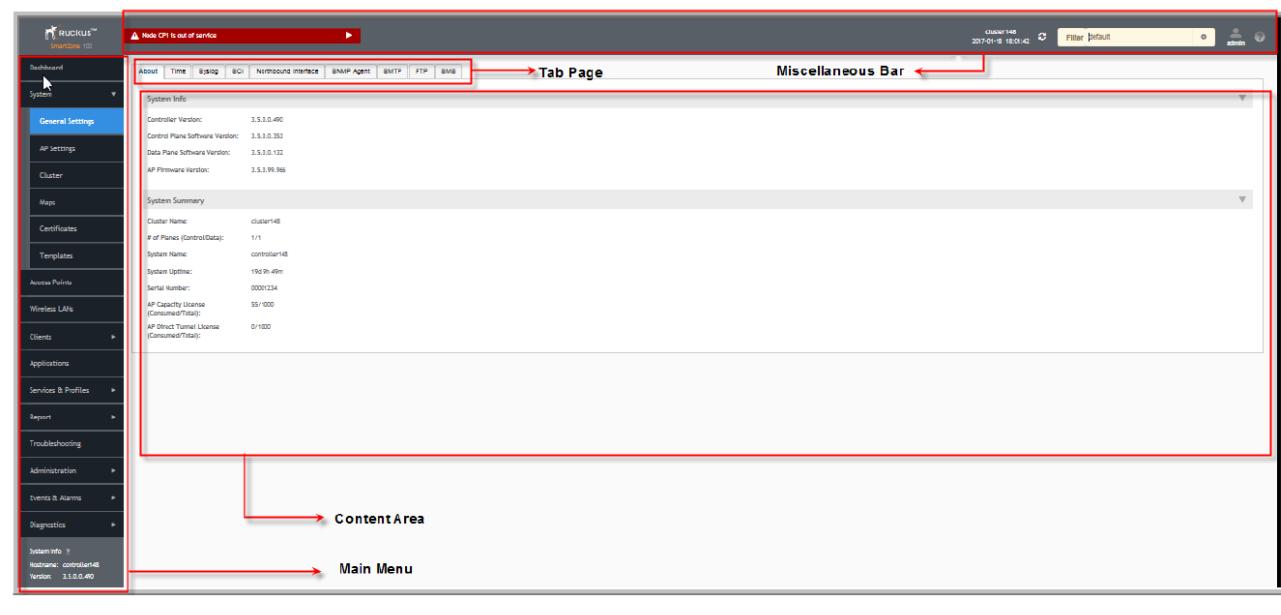
Claim 1	
<p>an interface that communicates values of the at least one operational parameter between the Web server and the intelligent agent in accordance with the predetermined data structure,</p>	<p>The Ruckus systems utilize an interface (e.g. an interface coupling the web server to the intelligent agent) that communicates values of the at least one operation parameter between the Web server (e.g., the server hosting the web interface) and the intelligent agent (e.g., the SNMP agent) with a predetermined data structure (e.g. data structures utilized in an SNMP management system such as MIBs).</p> <div data-bbox="520 457 775 509" style="border: 1px solid black; padding: 5px; text-align: center;"><h2>Overview</h2></div> <div data-bbox="528 529 1756 673" data-label="Text"><p>This document describes the SNMP management information bases (MIBs) that the controller supports. It also describes the overall design of the controller SNMP agent. <u>The Smart Zone SNMP agent allows its northbound portal application to monitor the system via SNMP GET operation.</u> It also notifies the critical events by sending traps. The Smart Zone supports V2c community and V3 user versions of SNMP. <u>It also supports configuring the system via SNMP SET from this release.</u> See <a href="#">Updating SNMP V2 and V3 Configuration Flow</a> and <a href="#">SNMP Logs</a> on page 24.</p></div> <div data-bbox="606 694 673 717" data-label="Section-Header"><p><b>NOTE</b></p></div> <div data-bbox="606 724 1670 779" data-label="Text"><p>For information on how to <u>enable SNMP traps and configure the SNMP V2 and V3 settings on the controller web interface</u>, refer to the <a href="#">Administrator Guide for SmartZone 3.1.1</a>.</p></div> <p>Source: SmartZone SNMP Reference Guide, p. 23.</p>

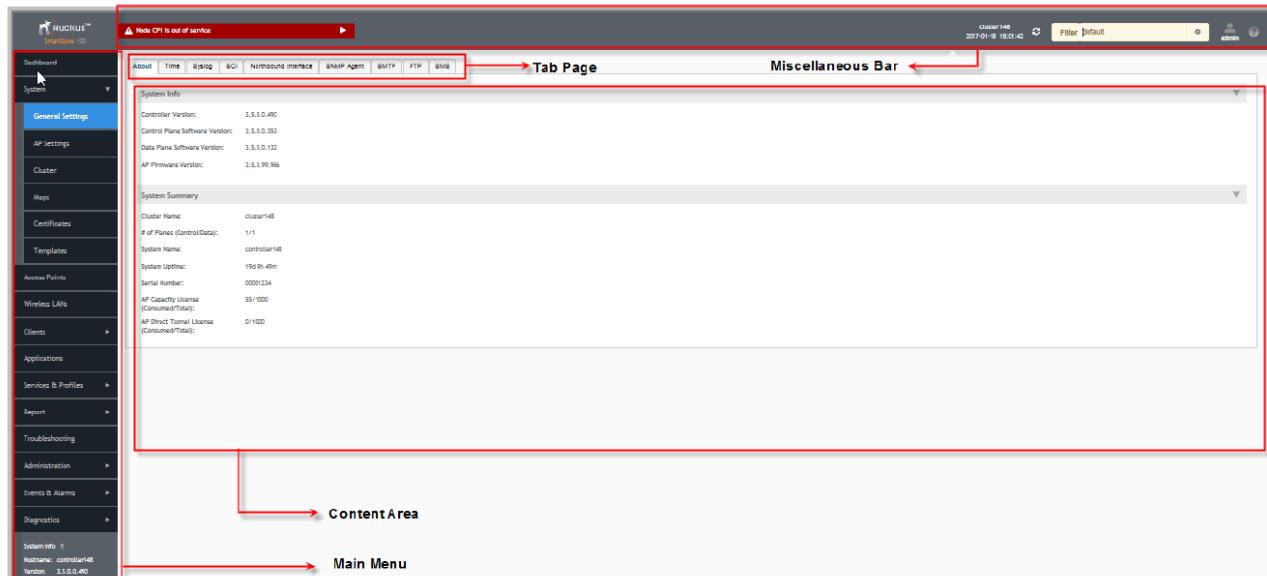
Claim 1	
<p>an interface that communicates values of the at least one operational parameter between the Web server and the intelligent agent in accordance with the predetermined data structure,</p>	<p>The Ruckus systems utilize an interface (e.g. an interface coupling the web server to the intelligent agent) that communicates values of the at least one operation parameter (e.g., value related to SNMP MIBs such as email alarm and email address settings) between the Web server (e.g., the server hosting the web interface) and the intelligent agent (e.g., the SNMP agent) with a predetermined data structure (e.g. data structures utilized in an SNMP management system such as MIBs).</p> <div data-bbox="687 433 1518 505" style="border: 1px solid black; padding: 10px; background-color: #fff;"> <h2 style="color: #c00; margin: 0;">Sending SNMP Traps and Email Notifications for Events</h2> </div> <div data-bbox="687 515 1491 557" style="margin-left: 20px;"> <p>By default, the controller saves a record of all events that occur to its database. You can configure the controller to also send SNMP traps and email notifications for specific events whenever they occur.</p> </div> <div data-bbox="687 564 1359 583" style="margin-left: 20px;"> <p>Verify that global SNMP traps are enabled to ensure that the controller can send SNMP traps for alarms.</p> </div> <div data-bbox="687 590 1463 630" style="margin-left: 20px;"> <p>You can also manage notifications of the event for each zone by clicking the zones displayed in the tree structure. Event configuration for each zone is independent including:</p> </div> <div data-bbox="716 637 1056 730" style="margin-left: 40px;"> <ul style="list-style-type: none"> <li>• Enabling or disabling E-mail notification settings</li> <li>• Recipient E-mail address</li> <li>• Enabling or disabling DB persistence settings</li> <li>• Enabling or disabling SNMP trap settings</li> </ul> </div> <div data-bbox="687 743 1518 783" style="margin-left: 20px;"> <p>You can also manually trigger SNMP traps without generating events using CLI. You can use the <code>#trigger-trap &lt;event code&gt;</code> command to trigger traps for respective events with their default attributes.</p> </div> <div data-bbox="687 792 1541 832" style="margin-left: 20px;"> <p>You can acquire the status of a specific client MAC address by using the query RUCKUS-CTRL-MIB. For more information, see the <i>SmartZone SNMP MIB Reference Guide</i>.</p> </div> <div data-bbox="716 840 992 884" style="margin-left: 20px;"> <ol style="list-style-type: none"> <li>1. Go to <b>Events and Alarms &gt; Events</b>.</li> <li>2. Click the <b>Event Management</b> tab.</li> </ol> </div> <div data-bbox="744 891 1263 912" style="margin-left: 20px;"> <p>The <b>Event Management</b> page appears displaying the following information:</p> </div> <div data-bbox="744 918 1543 1100" style="margin-left: 20px;"> <ul style="list-style-type: none"> <li>• <b>Email Notification:</b> Select the <b>Enable</b> check box, and then type an email address or email addresses in the <b>Mail To</b> box. If you want to send notifications to multiple recipients, use a comma to separate the email addresses. Then, click <b>OK</b>.</li> <li>• <b>Events:</b> View the table and select the events for which you want to send traps or email notifications (or both). Select the <b>Enable</b> or <b>Disable</b> options from the drop-down menu, and configure the following:       <ul style="list-style-type: none"> <li>- <b>Enable SNMP Notification:</b> Click this link to enable SNMP trap notifications for all selected events.</li> <li>- <b>Enable Email:</b> Click this link to enable email notifications for all selected events.</li> <li>- <b>Enable DB Persistence:</b> Click this link to enable saving of all selected events to the controller database. If an event is already currently enabled, it will stay enabled after you click this link.</li> </ul> </li> </ul> </div> <div data-bbox="744 1105 1134 1126" style="margin-left: 20px;"> <p>Following information related to the event are displayed:</p> </div> <div data-bbox="744 1131 1403 1262" style="margin-left: 20px;"> <ul style="list-style-type: none"> <li>• <b>Code:</b> displays the event code.</li> <li>• <b>Severity:</b> displays the severity of the event such as Information, Minor and so on.</li> <li>• <b>Category:</b> displays the category under which the event falls under, such as AP communication.</li> <li>• <b>Type:</b> displays the event type such as AP managed, Ap rejected and so on.</li> <li>• <b>Zone Override:</b> display the override status of the zone.</li> </ul> </div>

Source: SmartZone Administrator Guide, pp. 357-58.

Claim 1									
<p><b>an interface that communicates values of the at least one operational parameter between the Web server and the intelligent agent in accordance with the predetermined data structure,</b></p>	<p><b>The Ruckus systems utilize a predetermined data structure (e.g., MIB structure) for communicating values of at least one operational parameter between the Web server and the intelligent agent.</b></p> <p><b>ruckusCTRLSysCmdReboot</b></p> <p><b>TABLE 244 ruckusCTRLSysCmdReboot</b></p> <table border="1" data-bbox="520 515 1743 1005"> <tbody> <tr> <td>Object Name</td> <td>ruckusCTRLSysCmdReboot</td> </tr> <tr> <td>Parent Node</td> <td>ruckusSZSystemStats</td> </tr> <tr> <td>Object Identifier</td> <td>.1.3.6.1.4.1.25053.1.4.1.1.15.13</td> </tr> <tr> <td>Description</td> <td> <p>This object defines the system command for SZ node. Command to reboot SZ is:</p> <ul style="list-style-type: none"> <li>• 0- Normal (default value), which means that the system has completed the reboot command or the system has been rebooted.</li> <li>• 1 - Run-reboot - once the value is set as run-reboot, user cannot stop it until the system is setup again. Users can only set OID as this value.</li> </ul> <p><b>NOTE</b> This command may fail to reboot the system due to the cluster operation.</p> <p>If it set as reboot successfully, SNMP daemon will be stopped immediately. Therefore, it should wait until the system is up again. For example:</p> <pre>snmpset -v2c -c private -m all 172.17.50.100 RUCKUS-CTRL-MIB::ruckusCTRLSysCmdReboot.0 i run-reboot</pre> </td> </tr> </tbody> </table> <p>Source: SmartZone SNMP Reference Guide, p. 144.</p>	Object Name	ruckusCTRLSysCmdReboot	Parent Node	ruckusSZSystemStats	Object Identifier	.1.3.6.1.4.1.25053.1.4.1.1.15.13	Description	<p>This object defines the system command for SZ node. Command to reboot SZ is:</p> <ul style="list-style-type: none"> <li>• 0- Normal (default value), which means that the system has completed the reboot command or the system has been rebooted.</li> <li>• 1 - Run-reboot - once the value is set as run-reboot, user cannot stop it until the system is setup again. Users can only set OID as this value.</li> </ul> <p><b>NOTE</b> This command may fail to reboot the system due to the cluster operation.</p> <p>If it set as reboot successfully, SNMP daemon will be stopped immediately. Therefore, it should wait until the system is up again. For example:</p> <pre>snmpset -v2c -c private -m all 172.17.50.100 RUCKUS-CTRL-MIB::ruckusCTRLSysCmdReboot.0 i run-reboot</pre>
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Claim 1											
<p>an interface that communicates values of the at least one operational parameter between the Web server and the intelligent agent in accordance with the predetermined data structure,</p>	<p>Below is a further example of the intelligent agent interacting with the network entity in accordance with a MIB data structure.</p> <div data-bbox="635 429 1584 879" style="border: 1px solid black; padding: 10px;"> <p style="text-align: center; color: orange;"><b>ruckusSZSystemMiscEventTrap</b></p> <p>TABLE 4 ruckusSZSystemMiscEventTrap</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 25%;">Object Name</td><td>ruckusSZSystemMiscEventTrap</td></tr> <tr> <td>Object Identifier</td><td>.1.3.6.1.4.1.25053.2.11.1.1</td></tr> <tr> <td>Bindings</td><td>ruckusSZEEventSeverity ruckusSZEEventCode ruckusSZEEventType ruckusSZEEventDescription</td></tr> <tr> <td>Description</td><td>Generic trap triggered by administrator specified miscellaneous event. The event severity, event code, event type, event description are displayed.</td></tr> <tr> <td>Generated by Event Code</td><td>Refer to <a href="#">SmartZone Event Traps</a> on page 257 - <a href="#">ruckusSZSystemMiscEventTrap</a> on page 257</td></tr> </table> </div> <p>Source: SmartZone SNMP Reference Guide, p. 49.</p>	Object Name	ruckusSZSystemMiscEventTrap	Object Identifier	.1.3.6.1.4.1.25053.2.11.1.1	Bindings	ruckusSZEEventSeverity ruckusSZEEventCode ruckusSZEEventType ruckusSZEEventDescription	Description	Generic trap triggered by administrator specified miscellaneous event. The event severity, event code, event type, event description are displayed.	Generated by Event Code	Refer to <a href="#">SmartZone Event Traps</a> on page 257 - <a href="#">ruckusSZSystemMiscEventTrap</a> on page 257
Object Name	ruckusSZSystemMiscEventTrap										
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Generated by Event Code	Refer to <a href="#">SmartZone Event Traps</a> on page 257 - <a href="#">ruckusSZSystemMiscEventTrap</a> on page 257										

Claim 1	
<p><b>wherein the Web server provides the interactive environment using the Web pages generated by a Web page generator, the Web page generator that generates a set of linked Web pages in response to a request to carry out a procedure, wherein each Web page of the set of linked Web pages being based upon the data stored in the data store and corresponding to at least one step in the procedure to manage the at least one operational parameter of the network entity,</b></p>	<p>The Ruckus systems utilize a web server (e.g. the server that host the web interface) which provides the interactive environment using web pages (e.g. the user interface is presented via a web browser using web pages) generated by a web page generator.</p> <p><b>FIGURE 1 Controller Web Interface Features</b></p>  <p>Source: SmartZone Administrator Guide at p. 17</p>

Claim 1	
<p>wherein the Web server provides the interactive environment using the Web pages generated by a Web page generator, the Web page generator that generates a set of linked Web pages in response to a request to carry out a procedure, wherein each Web page of the set of linked Web pages being based upon the data stored in the data store and corresponding to at least one step in the procedure to manage the at least one operational parameter of the network entity,</p>	<p>The web page generator generates a set of linked webpages (e.g. the web pages to be sent to a user's browser) in response to a request to carry out a procedure (e.g. a user's request to obtain data or manage/configure a device). Each web page of the set of linked web pages is based upon data stored in the data store (e.g. menu's and configuration data displayed in the interface for a particular device will be based on device data stored in a data store such as an MIB) and corresponds to at least one step in the procedure to manage the at least one operation parameter of the network entity (e.g. the webpage is tied to management or configuration functions).</p> <p><b>FIGURE 1 Controller Web Interface Features</b></p>  <p>Source: SmartZone Administrator Guide at p. 17</p>

Claim 1										
<p>wherein the interface uses the stored data relating to a procedure for managing the at least one operational parameter of the network entity to generate a determination result indicating whether information retrieved using a form provided on the set of linked Web pages conforms to a rule relating to the procedure to manage the at least one operational parameter of the network entity, and</p>	<p>The interface uses the stored data (e.g. data in a MIB) relating to a procedure for managing the at least one operation parameter of the network entity (e.g. configuring or initiating an SNMP based command) to generate a determination result indicating whether information retrieved using a form provided on the set of linked web pages conforms to a rule relating to the procedure to manage the at least one operation parameter or the network entity. For example, when the information does not conform to a rule, the web interface may display an error message or generate an error routine.</p> <div data-bbox="654 515 1474 1249" style="border: 1px solid black; padding: 10px;"> <p><b>Configuring SNMP v3 Agent</b></p> <ol style="list-style-type: none"> <li>1. Go to System &gt; General Settings &gt; SNMP Agent.</li> <li>2. Select the <b>Enable SNMP Notifications Globally</b> check box to send out notification messages.</li> <li>3. To configure the SNMPv3 Agent, click <b>Create</b> and update the details as explained in the following table.</li> </ol> <p><b>TABLE 6 SNMPv3 Agent Settings</b></p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr style="background-color: #f2e699;"> <th style="text-align: left; padding: 2px;">Field</th> <th style="text-align: left; padding: 2px;">Description</th> <th style="text-align: left; padding: 2px;">Your Action</th> </tr> </thead> <tbody> <tr> <td style="padding: 2px;">Community</td> <td style="padding: 2px;">Indicates that applications which send SNMP Get Requests to the controller (to retrieve information) will need to send this string along with the request before they will be allowed access.</td> <td style="padding: 2px;">Enter a name.</td> </tr> <tr> <td style="padding: 2px;">Authentication</td> <td style="padding: 2px;">Indicates the authentication method.</td> <td style="padding: 2px;">           Choose the required option:           <ul style="list-style-type: none"> <li>• <b>None</b>—Use no authentication.</li> <li>• <b>SHA</b>—Secure Hash Algorithm, message hash function with 160-bit output.               <ol style="list-style-type: none"> <li>1. Enter the <b>Auth Pass Phrase</b>.</li> <li>2. Choose the <b>Privacy</b> option.                   <ul style="list-style-type: none"> <li>– <b>None</b>: Use no privacy method.</li> <li>– <b>DES</b>: Data Encryption Standard, data block cipher.</li> <li>– <b>AES</b>: Advanced Encryption Standard, data block cipher.</li> </ul> </li> <li>3. <b>Enter a Privacy Phrase, 8 through 32 characters.</b></li> </ol> </li> <li>• <b>MD5</b>—Message Digest algorithm 5, message hash function with 128-bit output.               <ol style="list-style-type: none"> <li>1. Enter the <b>Auth Pass Phrase</b>.</li> <li>2. Choose the <b>Privacy</b> option.                   <ul style="list-style-type: none"> <li>– <b>None</b>: Use no privacy method.</li> <li>– <b>DES</b>: Data Encryption Standard, data block cipher.</li> <li>– <b>AES</b>: Advanced Encryption Standard, data block cipher.</li> </ul> </li> <li>3. <b>Enter a Privacy Phrase, 8 through 32 characters.</b></li> </ol> </li> </ul> </td> </tr> </tbody> </table> </div>	Field	Description	Your Action	Community	Indicates that applications which send SNMP Get Requests to the controller (to retrieve information) will need to send this string along with the request before they will be allowed access.	Enter a name.	Authentication	Indicates the authentication method.	Choose the required option: <ul style="list-style-type: none"> <li>• <b>None</b>—Use no authentication.</li> <li>• <b>SHA</b>—Secure Hash Algorithm, message hash function with 160-bit output.               <ol style="list-style-type: none"> <li>1. Enter the <b>Auth Pass Phrase</b>.</li> <li>2. Choose the <b>Privacy</b> option.                   <ul style="list-style-type: none"> <li>– <b>None</b>: Use no privacy method.</li> <li>– <b>DES</b>: Data Encryption Standard, data block cipher.</li> <li>– <b>AES</b>: Advanced Encryption Standard, data block cipher.</li> </ul> </li> <li>3. <b>Enter a Privacy Phrase, 8 through 32 characters.</b></li> </ol> </li> <li>• <b>MD5</b>—Message Digest algorithm 5, message hash function with 128-bit output.               <ol style="list-style-type: none"> <li>1. Enter the <b>Auth Pass Phrase</b>.</li> <li>2. Choose the <b>Privacy</b> option.                   <ul style="list-style-type: none"> <li>– <b>None</b>: Use no privacy method.</li> <li>– <b>DES</b>: Data Encryption Standard, data block cipher.</li> <li>– <b>AES</b>: Advanced Encryption Standard, data block cipher.</li> </ul> </li> <li>3. <b>Enter a Privacy Phrase, 8 through 32 characters.</b></li> </ol> </li> </ul>
Field	Description	Your Action								
Community	Indicates that applications which send SNMP Get Requests to the controller (to retrieve information) will need to send this string along with the request before they will be allowed access.	Enter a name.								
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Source: SmartZone Administrator Guide at p. 43

Claim 1	
<p><b>wherein the interface communicates values to the intelligent agent based on the information retrieved from the form in response to the determination result indicating conformance.</b></p>	<p>The interface communicates values (e.g., values associated with enabling/disabling an SNMP trap or configuring other SNMP-related settings) to the intelligent agent (e.g., the SNMP agent) based on the information retrieved from the form (e.g., information input via the web interface) in response to the determination result indicating conformance (e.g. after confirming that any user input conforms to any rules, the data inputted will be communicated to an SNMP agent on the device for further processing). If the information has been entered correctly (i.e. “in conformance”), an error message may not appear or an “OK” button may be available, allowing communication of the values.</p> <div data-bbox="545 678 1735 875" style="border: 1px solid black; padding: 10px;"><p><b>NOTE</b> You can also edit or delete an SNMPv3 agent. To do so, select the SNMPv3 agent from the list and click <a href="#">Configure</a> or <a href="#">Delete</a> respectively.</p><p>4. Click OK.</p></div> <p>Source: SmartZone Administrator Guide at p. 44</p>

Claim 8	
<p><b>A Web-based management system comprising a Web-based management engine comprising:</b></p>	<p>Ruckus systems, for example, the SmartZone300, SmartZone100 and/or the SmartZone300 or SmartZone100 in conjunction with access points, routers, and/or switches, provide a Web-based management engine for a network entity (e.g., the SmartZone device and/or one or more Ruckus access points, routers, or switches). As shown below, the systems utilize a web management interface.</p> <div data-bbox="552 424 1608 1235" style="border: 1px solid black; padding: 10px;"><h2 style="color: orange; text-align: center;">NETWORK CONTROLLER</h2><p>Digital lifestyles sustained through mobile devices and applications, allow everyone to be more connected and productive, but concurrently intensify demands on operators, service providers and enterprises to improve network performance.</p><p>RUCKUS SmartZone network controllers simplify the complexity of scaling and managing wired switches, and wireless access points through a common interface to support private-cloud network-as-a-service (NaaS) offerings in addition to general enterprise networks. <u>All physical and virtual SmartZone appliances</u> support network configuration, monitoring, provisioning, discovery, planning, troubleshooting, performance management, security and reporting. <u>SmartZone's single, user-friendly web interface handles network visibility from the wireless edge to the network core and enabled IT administrators to perform day to day management tasks, troubleshoot user connectivity problems and define and monitor user and application policies without requiring advanced network skills and CLI expertise.</u></p></div> <p>Source: SmartZone Data Sheet, p. 1</p>

Claim 8	
<p><b>A Web-based management system comprising a Web-based management engine comprising:</b></p>	<p><b>The Ruckus systems utilize a web interface to manage network entities (e.g., Ruckus SmartZone devices, access points, routers, and/or switches).</b></p> <div data-bbox="476 447 1697 918" style="border: 1px solid black; padding: 10px;"><h2 style="color: orange; text-align: center;">Web Interface Features</h2><p style="text-align: center;"><u>The web interface is the primary graphical front end for the controller and is the primary interface</u></p><p style="text-align: center;">You can use it to:</p><ul style="list-style-type: none"><li>• Manage access points and WLANs</li><li>• Create and manage users and roles</li><li>• Monitor wireless clients, managed devices, and rogue access points</li><li>• View alarms, events, and administrator activity</li><li>• Generate reports</li><li>• Perform administrative tasks, including backing up and restoring system configuration, upgrading the cluster, downloading support, performing system diagnostic tests, viewing the status of controller processes, and uploading additional licenses (among others)</li></ul></div> <p>Source: SmartZone Administrator Guide at p. 16</p>

Claim 8	
<p><b>A Web-based management system comprising a Web-based management engine comprising:</b></p>	<p><b>Below is an example of the SmartZone web-based interface.</b></p> <p><b>FIGURE 1 Controller Web Interface Features</b></p> <p>The screenshot displays the SmartZone Controller Web Interface. The left side features a vertical <b>Main Menu</b> with options like Dashboard, Systems, General Settings, AP Settings, Cluster, Maps, Certificates, Templates, Access Points, Wireless LANs, Clients, Applications, Services &amp; Profiles, Reports, Troubleshooting, Administration, Events &amp; Alarms, and Diagnostics. The central area is the <b>Content Area</b>, which shows a <b>System Info</b> section with details such as Controller Version (3.5.3.0.40), Control Plane Software Version (3.5.3.0.353), Data Plane Software Version (3.5.3.0.132), and AP Firmware Version (3.5.3.99.968). Below this is a <b>System Summary</b> section with information like Cluster Name (cluster148), System Uptime (19d 9h 48m), and Serial Number (00001234). The top navigation bar includes tabs for About, Time, WPS02, BCI, Northbound Interface, SNMP Agent, SMTP, FTP, and SMB, with the SMB tab currently selected. The top right corner shows the cluster ID (cluster148), date (2017-01-18), and time (18:01:42), along with filter and admin buttons. A red box highlights the <b>Content Area</b>, and arrows point to the <b>Main Menu</b> (left), <b>Content Area</b> (bottom), <b>Tab Page</b> (top), and <b>Miscellaneous Bar</b> (right).</p> <p>Source: SmartZone Administrator Guide at p. 17</p>

Claim 8	
<p><b>an intelligent agent that obtains information about at least one operational parameter of the network entity and/or modifies the behavior of the network entity, the intelligent agent interacting with the network entity in accordance with a predetermined data structure;</b></p>	<p>The Ruckus systems utilize an intelligent agent that is used to obtain information about at least one operational parameter of the network entity and/or modify its behavior. For example, the SmartZone includes an internal SNMP agent, which is an intelligent agent.</p> <div data-bbox="514 400 1743 1038" style="border: 1px solid black; padding: 10px;"><h3 style="color: orange; margin: 0;">Enabling Global SNMP Notifications</h3><p>The controller supports the Simple Network Management Protocol (SNMP v2 and v3), which allows you to query controller information, such as system status, AP list, etc., and to set a number of system settings using a Network Management System (NMS) or SNMP MIB browser.</p><p>You can also enable SNMP traps to receive immediate notifications for possible AP and system issues.</p><p>The procedure for enabling the <u>internal SNMP agents</u> depends on whether your network is using SNMPv2 or SNMPv3. SNMPv3 mainly provides security enhancements over the earlier version, and therefore requires you to enter authorization passwords and encryption settings, instead of simple clear text community strings.</p><p>Both SNMPv2 and SNMPv3 can be enabled at the same time. The SNMPv3 framework provides backward compatibility for SNMPv1 and SNMPv2c management applications so that existing management applications can still be used to manage the controller with SNMPv3 enabled.</p><h4 style="color: orange; margin: 10px 0;">Configuring SNMP v2 Agent</h4><p>To configure SNMP v2 Agent settings:</p><ol style="list-style-type: none"><li>1. Go to <b>System &gt; General Settings &gt; <u>SNMP Agent</u></b>.</li><li>2. Select the <b>Enable SNMP Notifications Globally</b> check box to send out notification messages.</li><li>3. To configure the SNMPv2 Agent, click <b>Create</b> and update the details as explained in the following table.</li></ol></div> <p>Source: SmartZone Administrator Guide at p. 42</p>

Claim 8	
<p><b>an intelligent agent that obtains information about at least one operational parameter of the network entity and/or modifies the behavior of the network entity, the intelligent agent interacting with the network entity in accordance with a predetermined data structure;</b></p>	<p><b>Additionally, or alternatively, Ruckus's SmartZone-managed network entities, including Ruckus wireless Access Points are configured to be managed using the SmartZone</b></p> <div data-bbox="539 328 1653 1225" style="border: 1px solid black; padding: 10px;"><h2>Overview of the Ruckus Wireless AP</h2><p>Congratulations on your purchase of the Ruckus Wireless AP! Ruckus Wireless APs are the industry's most easy to use, yet robust and feature-rich Wi-Fi APs designed to bring power and simplicity together for large-scale indoor deployments.</p><p>Your Ruckus Wireless AP uses BeamFlex, a patented antenna technology from Ruckus Wireless that allows wireless signals to navigate around interference, extend wireless signal range, and increase speeds and capacity for wireless networks. The BeamFlex antenna system consists of an array of high-gain directional antenna elements that allow Ruckus Wireless APs to find quality signal paths in a changing environment, and sustain the baseline performance required for supporting data, audio and video applications.</p><p>Your Ruckus Wireless AP can be deployed in standalone mode with or without a <u>FlexMaster (FM)</u> manager, or as part of the Ruckus Wireless Smart WLAN system, in which it can be managed by <u>SmartCell Gateway (SCG)</u>, <u>virtual SmartCell Gateway (vSCG)</u>, <u>SmartZone (SZ)</u>, <u>ZoneDirector (ZD)</u>, and <u>Smart Access Management service (SAMs)</u> controllers.</p><hr/><p><b>NOTE</b> For more information on the Ruckus Wireless system (including SCG, vSCG, SZ, ZD, SAMs and FM), BeamFlex, the Ruckus Wireless controller operating system (RuckOS), and other Ruckus Wireless technologies, visit <a href="http://www.ruckuswireless.com">www.ruckuswireless.com</a></p></div> <p>Source: Ruckus Access Point User Guide, p. 11</p>

Claim 8	
<p><b>an intelligent agent that obtains information about at least one operational parameter of the network entity and/or modifies the behavior of the network entity, the intelligent agent interacting with the network entity in accordance with a predetermined data structure;</b></p>	<p>The SmartZone-managed network entities are configured to be managed using SNMP. Thus, the entities include an SNMP agent, which is an intelligent agent.</p> <div data-bbox="597 390 1576 822" style="border: 1px solid black; padding: 10px;"><p><b><u>Configuring the AP for Management by a SmartCell Gateway (SCG), virtual SmartCell Gateway (vSCG), or SmartZone (SZ) Controller</u></b></p><p>When your Ruckus Wireless network is managed by an SCG, vSCG or SZ controller, you can manage APs using the controller rather than individually logging into each AP's Web interface.</p><p>If SCG, vSCG or SZ controllers are installed on the network, then follow the SCG, vSCG or SZ instructions to configure the controller, and then connect the AP to your network. The AP finds the SCG, vSCG or SZ, and then downloads the SCG-, vSCG- or SZ-compatible AP firmware from the SCG, vSCG or SZ controller.</p></div> <div data-bbox="597 923 1576 1023" style="border: 1px solid black; padding: 10px;"><p>3 If you want to use TR-069 or <u>SNMP</u> to manage the AP, configure the settings listed in <a href="#">Table 46</a>.</p></div> <p>Source: Ruckus Access Point User Guide, pp. 91, 150</p>

Claim 8																																																											
<p><b>an intelligent agent that obtains information about at least one operational parameter of the network entity and/or modifies the behavior of the network entity, the intelligent agent interacting with the network entity in accordance with a predetermined data structure;</b></p>	<p><b>Network entities that are configured to be managed by SmartZone include the following examples:</b></p> <table> <thead> <tr> <th data-bbox="846 328 904 347">Device</th> <th data-bbox="994 328 1032 347">Source</th> </tr> </thead> <tbody> <tr> <td data-bbox="846 347 904 365">Ruckus C110</td><td data-bbox="994 347 1269 365"><a href="http://www.ruckussecurity.com/ZoneFlex-C110.asp">http://www.ruckussecurity.com/ZoneFlex-C110.asp</a></td></tr> <tr> <td data-bbox="846 365 904 384">Ruckus E510</td><td data-bbox="994 365 1269 384"><a href="http://www.ruckussecurity.com/ZoneFlex-E510.asp">http://www.ruckussecurity.com/ZoneFlex-E510.asp</a></td></tr> <tr> <td data-bbox="846 384 904 403">Ruckus H320</td><td data-bbox="994 384 1269 403"><a href="http://www.ruckussecurity.com/ZoneFlex-H320.asp">http://www.ruckussecurity.com/ZoneFlex-H320.asp</a></td></tr> <tr> <td data-bbox="846 403 904 421">Ruckus H510</td><td data-bbox="994 403 1269 421"><a href="http://www.ruckussecurity.com/ZoneFlex-H510.asp">http://www.ruckussecurity.com/ZoneFlex-H510.asp</a></td></tr> <tr> <td data-bbox="846 421 904 440">Ruckus M510</td><td data-bbox="994 421 1269 440"><a href="http://www.ruckussecurity.com/ZoneFlex-C110.asp">http://www.ruckussecurity.com/ZoneFlex-C110.asp</a></td></tr> <tr> <td data-bbox="846 440 904 459">Ruckus R310</td><td data-bbox="994 440 1269 459"><a href="http://www.ruckussecurity.com/ZoneFlex-R310.asp">http://www.ruckussecurity.com/ZoneFlex-R310.asp</a></td></tr> <tr> <td data-bbox="846 459 904 478">Ruckus R320</td><td data-bbox="994 459 1269 478"><a href="http://www.ruckussecurity.com/ZoneFlex-R310.asp">http://www.ruckussecurity.com/ZoneFlex-R310.asp</a></td></tr> <tr> <td data-bbox="846 478 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Ruckus ZoneFlex R700	<a href="http://www.ruckussecurity.com/ZoneFlex-R700.asp?utm_term=zoneflex%20r700&amp;utm_campaign=Ruckus+Wireless+*168&amp;utm_source=adwords&amp;utm_medium=ppc&amp;hsa_tgt=kwd-64161560800&amp;hsa_grp=11096537101&amp;hsa_src=g&amp;hsa_net=adwords&amp;hsa_mt=e&amp;hsa_ver=3&amp;hsa_ad=39171980101&amp;hsa_acc=90416223808&amp;hsa_kw=zoneflex%20r700&amp;hsa_camp=36080881&amp;gclid=CiwlCAiwmMX4BRAAEiwA-zM4JvP1WQgWVfDxpw-DlJa13uKMf-ifrz71qepcWRgXOon7CLXl9EGxoCstgQAvD_BwE">http://www.ruckussecurity.com/ZoneFlex-R700.asp?utm_term=zoneflex%20r700&amp;utm_campaign=Ruckus+Wireless+*168&amp;utm_source=adwords&amp;utm_medium=ppc&amp;hsa_tgt=kwd-64161560800&amp;hsa_grp=11096537101&amp;hsa_src=g&amp;hsa_net=adwords&amp;hsa_mt=e&amp;hsa_ver=3&amp;hsa_ad=39171980101&amp;hsa_acc=90416223808&amp;hsa_kw=zoneflex%20r700&amp;hsa_camp=36080881&amp;gclid=CiwlCAiwmMX4BRAAEiwA-zM4JvP1WQgWVfDxpw-DlJa13uKMf-ifrz71qepcWRgXOon7CLXl9EGxoCstgQAvD_BwE</a>																																																										
Ruckus ZoneFlex T300	<a href="http://www.ruckussecurity.com/datasheets/ds-zoneflex-t300-series.pdf">http://www.ruckussecurity.com/datasheets/ds-zoneflex-t300-series.pdf</a>																																																										

Claim 8	
<p><b>an intelligent agent that obtains information about at least one operational parameter of the network entity and/or modifies the behavior of the network entity, the intelligent agent interacting with the network entity in accordance with a predetermined data structure;</b></p>	<p>The intelligent agent is used to obtain information about at least one operational parameter of the network entity and modify its behavior. For example, the SNMP agent uses the SNMP protocol for monitoring and management of the network entity (e.g., Ruckus's SmartZone controllers, switches, access points, and routers). In an SNMP based management system, an SNMP agent is present on a managed network entity to convey device data within the Ruckus system. Further, the intelligent agent interacts with the network entity in accordance with a predetermined data structure, such data structured according to the management information base ("MIB") specifications of the SNMP protocol (i.e., "MIBs").</p> <div data-bbox="635 509 1595 1254" style="border: 1px solid black; padding: 10px;"> <p style="text-align: center; color: orange; font-weight: bold;">NETWORK CONTROLLER</p> <p>Digital lifestyles sustained through mobile devices and applications, allow everyone to be more connected and productive, but concurrently intensify demands on operators, service providers and enterprises to improve network performance.</p> <p>RUCKUS SmartZone network controllers simplify the complexity of scaling and managing wired switches, and wireless access points through a common interface to support private-cloud network-as-a-service (NaaS) offerings in addition to general enterprise networks. All physical and virtual SmartZone appliances support network configuration, monitoring, provisioning, discovery, planning, troubleshooting, performance management, security and reporting. SmartZone's single, user-friendly web interface handles network visibility from the wireless edge to the network core and enabled IT administrators to perform day to day management tasks, troubleshoot user connectivity problems and define and monitor user and application policies without requiring advanced network skills and CLI expertise.</p> </div> <p>Source: SmartZone Data Sheet, p. 1</p>

Claim 8	
<p><b>an intelligent agent that obtains information about at least one operational parameter of the network entity and/or modifies the behavior of the network entity, the intelligent agent interacting with the network entity in accordance with a predetermined data structure;</b></p>	<p><b>Below shows examples of the Ruckus system obtaining information from and/or modifying the behavior of a network entity.</b></p> <div data-bbox="501 577 1729 1009" style="border: 1px solid black; padding: 10px;"><h3 style="color: orange; text-align: center;">Enabling Global SNMP Notifications</h3><p>The controller supports the Simple Network Management Protocol (SNMP v2 and v3), which allows you to <u>query controller information, such as system status, AP list, etc., and to set a number of system settings</u> using a Network Management System (NMS) or SNMP MIB browser.</p><p><u>You can also enable SNMP traps to receive immediate notifications for possible AP and system issues.</u></p><p>The procedure for enabling the internal SNMP agents depends on whether your network is using SNMPv2 or SNMPv3. SNMPv3 mainly provides security enhancements over the earlier version, and therefore requires you to enter authorization passwords and encryption settings, instead of simple clear text community strings.</p><p>Both SNMPv2 and SNMPv3 can be enabled at the same time. The SNMPv3 framework provides backward compatibility for SNMPv1 and SNMPv2c management applications so that existing management applications can still be used to manage the controller with SNMPv3 enabled.</p></div> <p>Source: SmartZone Administrator Guide at p. 42</p>

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<p><b>an intelligent agent that obtains information about at least one operational parameter of the network entity and/or modifies the behavior of the network entity, the intelligent agent interacting with the network entity in accordance with a predetermined data structure;</b></p>	<p>The excerpt below shows another example of the intelligent agent obtaining information about at least one operational parameter of the network entity (e.g., to display on the web interface) and modifying the behavior of the network entity (e.g., by enabling/disabling an SNMP trap or configuring other SNMP settings).</p> <div data-bbox="520 457 769 505" style="border: 1px solid black; padding: 10px; text-align: center;"><h2>Overview</h2><p>This document describes the SNMP management information bases (MIBs) that the controller supports. It also describes the overall design of the controller SNMP agent. <u>The Smart Zone SNMP agent allows its northbound portal application to monitor the system via SNMP GET operation.</u> It also notifies the critical events by sending traps. The Smart Zone supports V2c community and V3 user versions of SNMP. <u>It also supports configuring the system via SNMP SET from this release.</u> See <a href="#">Updating SNMP V2 and V3 Configuration Flow</a> and <a href="#">SNMP Logs</a> on page 24.</p><p><b>NOTE</b></p><p>For information on how to <u>enable SNMP traps and configure the SNMP V2 and V3 settings on the controller web interface</u>, refer to the <a href="#">Administrator Guide for SmartZone 3.1.1</a>.</p></div> <p>Source: SmartZone SNMP Reference Guide, p. 23.</p>

Claim 8											
<p><b>an intelligent agent that obtains information about at least one operational parameter of the network entity and/or modifies the behavior of the network entity, the intelligent agent interacting with the network entity in accordance with a predetermined data structure;</b></p>	<p>The intelligent agent interacts with the network entity in accordance with a predetermined data structure (e.g., a MIB data structure). For example, the object identifier shown in the table below is related to the predetermined data structure (e.g., MIB).</p> <div data-bbox="481 361 1013 649" style="border: 1px solid black; padding: 10px;"> <h2 style="color: orange; text-align: center;">Standard MIB</h2> <p>Standard MIBs that the controller supports include:</p> <ul style="list-style-type: none"> <li>• <a href="#">Host Resource MIB</a> on page 26</li> <li>• <a href="#">UCD MIB</a> on page 27</li> <li>• <a href="#">SNMPv2 MIB (RFC3418)</a> on page 27</li> <li>• <a href="#">RFC1213 MIB (RFC1213)</a> on page 27</li> </ul> </div> <div data-bbox="481 707 1436 1192" style="border: 1px solid black; padding: 10px;"> <h3 style="color: orange; text-align: center;">ruckusSZSystemMiscEventTrap</h3> <p><b>TABLE 4 ruckusSZSystemMiscEventTrap</b></p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr style="background-color: #ff9999;"> <td style="width: 25%;">Object Name</td> <td>ruckusSZSystemMiscEventTrap</td> </tr> <tr> <td>Object Identifier</td> <td>.1.3.6.1.4.1.25053.2.11.1.1</td> </tr> <tr> <td>Bindings</td> <td>ruckusSZEEventSeverity ruckusSZEEventCode ruckusSZEEventType ruckusSZEEventDescription</td> </tr> <tr> <td>Description</td> <td>Generic trap triggered by administrator specified miscellaneous event. The event severity, event code, event type, event description are displayed.</td> </tr> <tr> <td>Generated by Event Code</td> <td>Refer to <a href="#">SmartZone Event Traps</a> on page 257 - <a href="#">ruckusSZSystemMiscEventTrap</a> on page 257</td> </tr> </table> </div> <p>Source: SmartZone SNMP Reference Guide, p. 26, 49.</p>	Object Name	ruckusSZSystemMiscEventTrap	Object Identifier	.1.3.6.1.4.1.25053.2.11.1.1	Bindings	ruckusSZEEventSeverity ruckusSZEEventCode ruckusSZEEventType ruckusSZEEventDescription	Description	Generic trap triggered by administrator specified miscellaneous event. The event severity, event code, event type, event description are displayed.	Generated by Event Code	Refer to <a href="#">SmartZone Event Traps</a> on page 257 - <a href="#">ruckusSZSystemMiscEventTrap</a> on page 257
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Claim 8																																																			
<p><b>an intelligent agent that obtains information about at least one operational parameter of the network entity and/or modifies the behavior of the network entity, the intelligent agent interacting with the network entity in accordance with a predetermined data structure;</b></p>	<p><b>Below is further examples of the intelligent agent interacting with the network entity in accordance with a MIB data structure.</b></p> <div data-bbox="591 328 1551 1249" style="border: 1px solid black; padding: 10px;"> <p><b>Introduction</b></p> <p>The objects contained in the RUCKUS-SZ-EVENT-MIB group provide information about the controller supported traps.</p> <p><b>NOTE</b> For details on alarms and events refer to <i>SmartZone Alarms and Events Guide</i>.</p> <p><b>Ruckus Event Trap</b></p> <p>The following table lists the MIB, OID, and description of each object in the RUCKUS-SZ group.</p> <table border="1" data-bbox="602 606 1541 1239"> <thead> <tr> <th>Trap Name</th> <th>Object Identifier</th> </tr> </thead> <tbody> <tr><td><a href="#">ruckusSZSystemMiscEventTrap</a> on page 49</td><td>.1.3.6.1.4.1.25053.2.11.1.1</td></tr> <tr><td><a href="#">ruckusSZUpgradeSuccessTrap</a> on page 49</td><td>.1.3.6.1.4.1.25053.2.11.1.2</td></tr> <tr><td><a href="#">ruckusSZUpgradeFailedTrap</a> on page 50</td><td>.1.3.6.1.4.1.25053.2.11.1.3</td></tr> <tr><td><a href="#">ruckusSZNodeRestartedTrap</a> on page 50</td><td>.1.3.6.1.4.1.25053.2.11.1.4</td></tr> <tr><td><a href="#">ruckusSZNodeShutdownTrap</a> on page 51</td><td>.1.3.6.1.4.1.25053.2.11.1.5</td></tr> <tr><td><a href="#">ruckusSZCPUUsageThresholdExceededTrap</a> on page 51</td><td>.1.3.6.1.4.1.25053.2.11.1.6</td></tr> <tr><td><a href="#">ruckusSZMemoryUsageThresholdExceededTrap</a> on page 52</td><td>.1.3.6.1.4.1.25053.2.11.1.7</td></tr> <tr><td><a href="#">ruckusSZDiskUsageThresholdExceededTrap</a> on page 52</td><td>.1.3.6.1.4.1.25053.2.11.1.8</td></tr> <tr><td><a href="#">ruckusSZLicenseUsageThresholdExceededTrap</a> on page 53</td><td>.1.3.6.1.4.1.25053.2.11.1.19</td></tr> <tr><td><a href="#">ruckusSZAPMiscEventTrap</a> on page 53</td><td>.1.3.6.1.4.1.25053.2.11.1.20</td></tr> <tr><td><a href="#">ruckusSZAPConnectedTrap</a> on page 54</td><td>.1.3.6.1.4.1.25053.2.11.1.21</td></tr> <tr><td><a href="#">ruckusSZAPDeletedTrap</a> on page 54</td><td>.1.3.6.1.4.1.25053.2.11.1.22</td></tr> <tr><td><a href="#">ruckusSZAPDisconnectedTrap</a> on page 55</td><td>.1.3.6.1.4.1.25053.2.11.1.23</td></tr> <tr><td><a href="#">ruckusSZAPLostHeartbeatTrap</a> on page 55</td><td>.1.3.6.1.4.1.25053.2.11.1.24</td></tr> <tr><td><a href="#">ruckusSZAPRebootTrap</a> on page 56</td><td>.1.3.6.1.4.1.25053.2.11.1.25</td></tr> <tr><td><a href="#">ruckusSZACriticalAPConnectedTrap</a> on page 56</td><td>.1.3.6.1.4.1.25053.2.11.1.26</td></tr> <tr><td><a href="#">ruckusSZACriticalAPDisconnectedTrap</a> on page 57</td><td>.1.3.6.1.4.1.25053.2.11.1.27</td></tr> <tr><td><a href="#">ruckusSZAPRejectedTrap</a> on page 58</td><td>.1.3.6.1.4.1.25053.2.11.1.28</td></tr> <tr><td><a href="#">ruckusSZAPConfUpdateFailedTrap</a> on page 58</td><td>.1.3.6.1.4.1.25053.2.11.1.29</td></tr> <tr><td><a href="#">ruckusSZAPConfUpdatedTrap</a> on page 59</td><td>.1.3.6.1.4.1.25053.2.11.1.30</td></tr> <tr><td><a href="#">ruckusSZAPSwapOutModelDiffTrap</a> on page 59</td><td>.1.3.6.1.4.1.25053.2.11.1.31</td></tr> <tr><td><a href="#">ruckusSZAPPreProvisionModelDiffTrap</a> on page 60</td><td>.1.3.6.1.4.1.25053.2.11.1.32</td></tr> <tr><td><a href="#">ruckusSZAPFirmwareUpdateFailedTrap</a> on page 61</td><td>.1.3.6.1.4.1.25053.2.11.1.34</td></tr> <tr><td><a href="#">ruckusSZAPFirmwareUpdatedTrap</a> on page 61</td><td>.1.3.6.1.4.1.25053.2.11.1.35</td></tr> </tbody> </table> </div> <p>Source: SmartZone SNMP Reference Guide, p. 45.</p>	Trap Name	Object Identifier	<a href="#">ruckusSZSystemMiscEventTrap</a> on page 49	.1.3.6.1.4.1.25053.2.11.1.1	<a href="#">ruckusSZUpgradeSuccessTrap</a> on page 49	.1.3.6.1.4.1.25053.2.11.1.2	<a href="#">ruckusSZUpgradeFailedTrap</a> on page 50	.1.3.6.1.4.1.25053.2.11.1.3	<a href="#">ruckusSZNodeRestartedTrap</a> on page 50	.1.3.6.1.4.1.25053.2.11.1.4	<a href="#">ruckusSZNodeShutdownTrap</a> on page 51	.1.3.6.1.4.1.25053.2.11.1.5	<a href="#">ruckusSZCPUUsageThresholdExceededTrap</a> on page 51	.1.3.6.1.4.1.25053.2.11.1.6	<a href="#">ruckusSZMemoryUsageThresholdExceededTrap</a> on page 52	.1.3.6.1.4.1.25053.2.11.1.7	<a href="#">ruckusSZDiskUsageThresholdExceededTrap</a> on page 52	.1.3.6.1.4.1.25053.2.11.1.8	<a href="#">ruckusSZLicenseUsageThresholdExceededTrap</a> on page 53	.1.3.6.1.4.1.25053.2.11.1.19	<a href="#">ruckusSZAPMiscEventTrap</a> on page 53	.1.3.6.1.4.1.25053.2.11.1.20	<a href="#">ruckusSZAPConnectedTrap</a> on page 54	.1.3.6.1.4.1.25053.2.11.1.21	<a href="#">ruckusSZAPDeletedTrap</a> on page 54	.1.3.6.1.4.1.25053.2.11.1.22	<a href="#">ruckusSZAPDisconnectedTrap</a> on page 55	.1.3.6.1.4.1.25053.2.11.1.23	<a href="#">ruckusSZAPLostHeartbeatTrap</a> on page 55	.1.3.6.1.4.1.25053.2.11.1.24	<a href="#">ruckusSZAPRebootTrap</a> on page 56	.1.3.6.1.4.1.25053.2.11.1.25	<a href="#">ruckusSZACriticalAPConnectedTrap</a> on page 56	.1.3.6.1.4.1.25053.2.11.1.26	<a href="#">ruckusSZACriticalAPDisconnectedTrap</a> on page 57	.1.3.6.1.4.1.25053.2.11.1.27	<a href="#">ruckusSZAPRejectedTrap</a> on page 58	.1.3.6.1.4.1.25053.2.11.1.28	<a href="#">ruckusSZAPConfUpdateFailedTrap</a> on page 58	.1.3.6.1.4.1.25053.2.11.1.29	<a href="#">ruckusSZAPConfUpdatedTrap</a> on page 59	.1.3.6.1.4.1.25053.2.11.1.30	<a href="#">ruckusSZAPSwapOutModelDiffTrap</a> on page 59	.1.3.6.1.4.1.25053.2.11.1.31	<a href="#">ruckusSZAPPreProvisionModelDiffTrap</a> on page 60	.1.3.6.1.4.1.25053.2.11.1.32	<a href="#">ruckusSZAPFirmwareUpdateFailedTrap</a> on page 61	.1.3.6.1.4.1.25053.2.11.1.34	<a href="#">ruckusSZAPFirmwareUpdatedTrap</a> on page 61	.1.3.6.1.4.1.25053.2.11.1.35
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Claim 8	
<p><b>a data store storing data relating to a procedure for managing the at least one operational parameter of the network entity;</b></p>	<p>The Ruckus system utilizes a data store (e.g., memory) storing data relating to a procedure for managing the at least one operational parameter of the network (for example, data stored in the form of MIBs).</p> <div data-bbox="514 414 1762 856" style="border: 1px solid black; padding: 10px;"><h2 style="color: orange; text-align: center;">Ruckus System MIB</h2><hr/><ul style="list-style-type: none"><li>▪ <a href="#">Introduction</a>..... 141</li><li>▪ <a href="#">Ruckus System Command (SysCommands)</a>..... 143</li><li>▪ <a href="#">Ruckus Controller System Node Table</a>..... 144</li><li>▪ <a href="#">Ruckus Controller Zone Table</a>..... 148</li></ul><h3 style="color: orange; text-align: center;">Introduction</h3><p style="text-align: center;">The objects contained in the RUCKUS-SZ-SYSTEM-MIB provide information about the controller system, including its WLAN traffic, managed APs, wireless clients associated with the managed APs, and CPU and memory utilization. The following are the MIB definition system level statistics nodes for RUCKUS-SZ-SYSTEM-MIB.</p></div>

Source: SmartZone SNMP Reference Guide, p. 141.

Claim 8	
<p>a Web server that provides an interactive environment to manage the at least one operational parameter of the network entity, and</p>	<p>The Ruckus system utilizes a web server (e.g. a server hosting the software used for the web interface) that provides an interactive environment (e.g. the web interface presented to a user through a web browser) to manage the at least one operational parameter of the network entity (e.g., enabling/disabling an SNMP trap or configuring other SNMP-related settings). For example, the excerpt below shows that the Ruckus SmartZone controllers include a web server.</p> <div data-bbox="481 760 1768 1206" style="border: 1px solid black; padding: 10px;"><h2>Logging On to the Web Interface</h2><p>Before you can log on to the controller web interface, you must have the IP address that you assigned to the Management (Web) interface when you set up the controller on the network using the Setup Wizard.</p><p>Once you have this IP address, you can access the web interface on any computer that can reach the Management (Web) interface on the IP network.</p><p>Follow these steps to log on to the controller web interface.</p><ol style="list-style-type: none"><li>1. On a computer that is on the same subnet as the Management (Web) interface, start a web browser.</li></ol><p>Supported web browsers include:</p><ul style="list-style-type: none"><li>• Google Chrome 47 and later (recommended)</li><li>• Safari 7 and later (Mac OS)</li><li>• Mozilla Firefox 44 and later</li></ul></div> <p>Source: SmartZone Administrator Guide at p. 15</p>

Claim 8	
<p>a Web server that provides an interactive environment to manage the at least one operational parameter of the network entity, and</p>	<p>As an example, the Web server provides the interactive environment shown below to manage the at least one operational parameter of the network entity.</p> <div data-bbox="472 491 1787 1175"> <p><b>FIGURE 1 Controller Web Interface Features</b></p> <p>The screenshot shows the Ruckus SmartZone Controller Web Interface. The left sidebar contains a main menu with 'General Settings' selected, and a list of sub-options: Dashboard, Systems, AP Settings, Cluster, Maps, Certificates, Templates, Access Points, Wireless LANs, Clients, Applications, Services &amp; Profiles, Report, Troubleshooting, Administration, Events &amp; Alarms, and Diagnostics. The top navigation bar includes tabs for About, Time, WPSQ, 802.11, Northbound Interface, SNMP Agent, SSH/Telnet, and SMB. The top right corner shows the date and time (2017-01-18 18:01:42) and user (admin). The central Content Area displays 'System Info' and 'System Summary' sections. The 'System Info' section shows Controller Version: 3.5.3.0.490, Control Plane Software Version: 3.5.3.0.353, Data Plane Software Version: 3.5.3.0.132, and AP Firmware Version: 3.5.3.99.968. The 'System Summary' section shows Cluster Name: cluster148, # of Planes (Control/Data): 1/1, System Name: controller148, System Uptime: 19d 9h 46m, Serial Number: 00001234, AP Capacity License (Consumed/Total): 53/1000, and AP Direct Tunnel License (Consumed/Total): 0/1000. A red box highlights the Main Menu, Content Area, and Tab Page. A red arrow points to the Tab Page tab in the top navigation bar. Another red arrow points to the Content Area. A third red arrow points to the Main Menu.</p> </div> <p>Source: SmartZone Administrator Guide at p. 17</p>

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<p>a Web server that provides an interactive environment to manage the at least one operational parameter of the network entity, and</p>	<p>The Web-server, via the web interface, provides an interactive environment (e.g., input boxes, check boxes, buttons, drop-down menus, etc.) to manage at least one operational parameter (e.g., SNMP-related settings, such as enabling SNMP traps, configuring SNMP settings, and enabling SNMP notifications, as shown in the excerpts below) of the network entity.</p> <div data-bbox="520 400 769 447" style="border: 1px solid black; padding: 5px; text-align: center;"><h2>Overview</h2></div> <p>This document describes the SNMP management information bases (MIBs) that the controller supports. It also describes the overall design of the controller SNMP agent. The Smart Zone SNMP agent allows its northbound portal application to monitor the system via SNMP GET operation. It also notifies the critical events by sending traps. The Smart Zone supports V2c community and V3 user versions of SNMP. It also supports configuring the system via SNMP SET from this release. See <a href="#">Updating SNMP V2 and V3 Configuration Flow and SNMP Logs</a> on page 24.</p> <p><b>NOTE</b> For information on how to <u>enable SNMP traps and configure the SNMP V2 and V3 settings on the controller web interface</u>, refer to the <i>Administrator Guide for SmartZone 3.1.1</i>.</p> <p>Source: SmartZone SNMP Reference Guide, p. 23.</p> <div data-bbox="520 889 936 928" style="border: 1px solid black; padding: 5px; text-align: center;"><h3>Configuring SNMP v2 Agent</h3></div> <p>To configure SNMP v2 Agent settings:</p> <ol style="list-style-type: none"><li>1. Go to <b>System &gt; General Settings &gt; SNMP Agent</b>.</li><li>2. Select the <b>Enable SNMP Notifications Globally</b> <u>check box</u> to send out notification messages.</li><li>3. To configure the SNMPv2 Agent, click <b>Create</b> and update the details as explained in the following table.</li></ol> <p>Source: SmartZone Administrator Guide at p. 42</p>

Claim 8	
<p><b>an interface that communicates values of the at least one operational parameter between the Web server and the intelligent agent in accordance with the predetermined data structure,</b></p>	<p>The Ruckus systems utilize an interface that communicates values of the at least one operation parameter between the Web server (e.g., the server hosting the web interface) and the intelligent agent (e.g., the SNMP agent) with a predetermined data structure (e.g. data structures utilized in an SNMP management system such as MIBs).</p> <div data-bbox="462 400 1537 779" style="border: 1px solid black; padding: 10px;"><h3>Enabling Global SNMP Notifications</h3><p>The controller supports the Simple Network Management Protocol (SNMP v2 and v3), which allows you to query controller information, such as system status, AP list, etc., and to set a number of system settings using a Network Management System (NMS) or SNMP MIB browser.</p><p>You can also enable SNMP traps to receive immediate notifications for possible AP and system issues.</p><p>The procedure for enabling the internal SNMP agents depends on whether your network is using SNMPv2 or SNMPv3. SNMPv3 mainly provides security enhancements over the earlier version, and therefore requires you to enter authorization passwords and encryption settings, instead of simple clear text community strings.</p><p>Both SNMPv2 and SNMPv3 can be enabled at the same time. The SNMPv3 framework provides backward compatibility for SNMPv1 and SNMPv2c management applications so that existing management applications can still be used to manage the controller with SNMPv3 enabled.</p></div> <div data-bbox="462 836 1537 1254" style="border: 1px solid black; padding: 10px;"><h2>Web Interface Features</h2><p>The web interface is the primary graphical front end for the controller and is the primary interface</p><p>You can use it to:</p><ul style="list-style-type: none"><li>• Manage access points and WLANs</li><li>• Create and manage users and roles</li><li>• Monitor wireless clients, managed devices, and rogue access points</li><li>• View alarms, events, and administrator activity</li><li>• Generate reports</li><li>• Perform administrative tasks, including backing up and restoring system configuration, upgrading the cluster, downloading support, performing system diagnostic tests, viewing the status of controller processes, and uploading additional licenses (among others)</li></ul></div> <p>Source: SmartZone Administrator Guide at p. 42</p>

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<p>an interface that communicates values of the at least one operational parameter between the Web server and the intelligent agent in accordance with the predetermined data structure,</p>	<p>The Ruckus systems utilize an interface (e.g. an interface coupling the web server to the intelligent agent) that communicates values of the at least one operation parameter between the Web server (e.g., the server hosting the web interface) and the intelligent agent (e.g., the SNMP agent) with a predetermined data structure (e.g. data structures utilized in an SNMP management system such as MIBs).</p> <div data-bbox="518 446 1756 806" style="border: 1px solid black; padding: 10px;"><h2>Overview</h2><p>This document describes the SNMP management information bases (MIBs) that the controller supports. It also describes the overall design of the controller SNMP agent. <u>The Smart Zone SNMP agent allows its northbound portal application to monitor the system via SNMP GET operation.</u> It also notifies the critical events by sending traps. The Smart Zone supports V2c community and V3 user versions of SNMP. <u>It also supports configuring the system via SNMP SET from this release.</u> See <a href="#">Updating SNMP V2 and V3 Configuration Flow</a> and <a href="#">SNMP Logs</a> on page 24.</p><p><b>NOTE</b></p><p>For information on how to <u>enable SNMP traps and configure the SNMP V2 and V3 settings on the controller web interface</u>, refer to the <i>Administrator Guide for SmartZone 3.1.1</i>.</p></div> <p>Source: SmartZone SNMP Reference Guide, p. 23.</p>

Claim 8	
<p>an interface that communicates values of the at least one operational parameter between the Web server and the intelligent agent in accordance with the predetermined data structure,</p>	<p>The Ruckus systems utilize an interface (e.g. an interface coupling the web server to the intelligent agent) that communicates values of the at least one operation parameter (e.g., value related to SNMP MIBs such as email alarm and email address settings) between the Web server (e.g., the server hosting the web interface) and the intelligent agent (e.g., the SNMP agent) with a predetermined data structure (e.g. data structures utilized in an SNMP management system such as MIBs).</p> <div data-bbox="687 433 1518 505" style="border: 1px solid black; padding: 10px; background-color: #fff;"> <h2 style="color: #c00000; margin: 0;">Sending SNMP Traps and Email Notifications for Events</h2> </div> <div data-bbox="687 515 1493 557" style="margin-left: 20px;"> <p>By default, the controller saves a record of all events that occur to its database. You can configure the controller to also send SNMP traps and email notifications for specific events whenever they occur.</p> </div> <div data-bbox="687 564 1359 583" style="margin-left: 20px;"> <p>Verify that global SNMP traps are enabled to ensure that the controller can send SNMP traps for alarms.</p> </div> <div data-bbox="687 590 1463 630" style="margin-left: 20px;"> <p>You can also manage notifications of the event for each zone by clicking the zones displayed in the tree structure. Event configuration for each zone is independent including:</p> </div> <div data-bbox="716 637 1056 730" style="margin-left: 40px;"> <ul style="list-style-type: none"> <li>• Enabling or disabling E-mail notification settings</li> <li>• Recipient E-mail address</li> <li>• Enabling or disabling DB persistence settings</li> <li>• Enabling or disabling SNMP trap settings</li> </ul> </div> <div data-bbox="687 743 1518 783" style="margin-left: 20px;"> <p>You can also manually trigger SNMP traps without generating events using CLI. You can use the <code>#trigger-trap &lt;event code&gt;</code> command to trigger traps for respective events with their default attributes.</p> </div> <div data-bbox="687 792 1541 832" style="margin-left: 20px;"> <p>You can acquire the status of a specific client MAC address by using the query RUCKUS-CTRL-MIB. For more information, see the <i>SmartZone SNMP MIB Reference Guide</i>.</p> </div> <div data-bbox="720 840 992 889" style="margin-left: 20px;"> <ol style="list-style-type: none"> <li>1. Go to <b>Events and Alarms &gt; Events</b>.</li> <li>2. Click the <b>Event Management</b> tab.</li> </ol> </div> <div data-bbox="746 895 1263 917" style="margin-left: 20px;"> <p>The <b>Event Management</b> page appears displaying the following information:</p> </div> <div data-bbox="746 923 1543 1094" style="margin-left: 20px;"> <ul style="list-style-type: none"> <li>• <b>Email Notification:</b> Select the <b>Enable</b> check box, and then type an email address or email addresses in the <b>Mail To</b> box. If you want to send notifications to multiple recipients, use a comma to separate the email addresses. Then, click <b>OK</b>.</li> <li>• <b>Events:</b> View the table and select the events for which you want to send traps or email notifications (or both). Select the <b>Enable</b> or <b>Disable</b> options from the drop-down menu, and configure the following:       <ul style="list-style-type: none"> <li>- <b>Enable SNMP Notification:</b> Click this link to enable SNMP trap notifications for all selected events.</li> <li>- <b>Enable Email:</b> Click this link to enable email notifications for all selected events.</li> <li>- <b>Enable DB Persistence:</b> Click this link to enable saving of all selected events to the controller database. If an event is already currently enabled, it will stay enabled after you click this link.</li> </ul> </li> </ul> </div> <div data-bbox="746 1100 1134 1120" style="margin-left: 20px;"> <p>Following information related to the event are displayed:</p> </div> <div data-bbox="746 1126 1403 1261" style="margin-left: 20px;"> <ul style="list-style-type: none"> <li>• <b>Code:</b> displays the event code.</li> <li>• <b>Severity:</b> displays the severity of the event such as Information, Minor and so on.</li> <li>• <b>Category:</b> displays the category under which the event falls under, such as AP communication.</li> <li>• <b>Type:</b> displays the event type such as AP managed, Ap rejected and so on.</li> <li>• <b>Zone Override:</b> display the override status of the zone.</li> </ul> </div>

Source: SmartZone Administrator Guide, pp. 357-58.

Claim 8									
<p><b>an interface that communicates values of the at least one operational parameter between the Web server and the intelligent agent in accordance with the predetermined data structure,</b></p>	<p><b>The Ruckus systems utilize a predetermined data structure (e.g., MIB structure) for communicating values of at least one operational parameter between the Web server and the intelligent agent.</b></p> <div data-bbox="501 419 1781 1048" style="border: 1px solid black; padding: 10px;"> <p><b>ruckusCTRLSysCmdReboot</b></p> <p><b>TABLE 244 ruckusCTRLSysCmdReboot</b></p> <table border="1" data-bbox="514 519 1743 1005"> <tbody> <tr> <td>Object Name</td> <td>ruckusCTRLSysCmdReboot</td> </tr> <tr> <td>Parent Node</td> <td>ruckusSZSystemStats</td> </tr> <tr> <td>Object Identifier</td> <td>.1.3.6.1.4.1.25053.1.4.1.1.15.13</td> </tr> <tr> <td>Description</td> <td> <p>This object defines the system command for SZ node. Command to reboot SZ is:</p> <ul style="list-style-type: none"> <li>• 0- Normal (default value), which means that the system has completed the reboot command or the system has been rebooted.</li> <li>• 1 - Run-reboot - once the value is set as run-reboot, user cannot stop it until the system is setup again. Users can only set OID as this value.</li> </ul> <p><b>NOTE</b> This command may fail to reboot the system due to the cluster operation.</p> <p>If it set as reboot successfully, SNMP daemon will be stopped immediately. Therefore, it should wait until the system is up again. For example:</p> <pre>snmpset -v2c -c private -m all 172.17.50.100 RUCKUS-CTRL-MIB::ruckusCTRLSysCmdReboot.0 i run-reboot</pre> </td> </tr> </tbody> </table> </div> <p>Source: SmartZone SNMP Reference Guide, p. 144.</p>	Object Name	ruckusCTRLSysCmdReboot	Parent Node	ruckusSZSystemStats	Object Identifier	.1.3.6.1.4.1.25053.1.4.1.1.15.13	Description	<p>This object defines the system command for SZ node. Command to reboot SZ is:</p> <ul style="list-style-type: none"> <li>• 0- Normal (default value), which means that the system has completed the reboot command or the system has been rebooted.</li> <li>• 1 - Run-reboot - once the value is set as run-reboot, user cannot stop it until the system is setup again. Users can only set OID as this value.</li> </ul> <p><b>NOTE</b> This command may fail to reboot the system due to the cluster operation.</p> <p>If it set as reboot successfully, SNMP daemon will be stopped immediately. Therefore, it should wait until the system is up again. For example:</p> <pre>snmpset -v2c -c private -m all 172.17.50.100 RUCKUS-CTRL-MIB::ruckusCTRLSysCmdReboot.0 i run-reboot</pre>
Object Name	ruckusCTRLSysCmdReboot								
Parent Node	ruckusSZSystemStats								
Object Identifier	.1.3.6.1.4.1.25053.1.4.1.1.15.13								
Description	<p>This object defines the system command for SZ node. Command to reboot SZ is:</p> <ul style="list-style-type: none"> <li>• 0- Normal (default value), which means that the system has completed the reboot command or the system has been rebooted.</li> <li>• 1 - Run-reboot - once the value is set as run-reboot, user cannot stop it until the system is setup again. Users can only set OID as this value.</li> </ul> <p><b>NOTE</b> This command may fail to reboot the system due to the cluster operation.</p> <p>If it set as reboot successfully, SNMP daemon will be stopped immediately. Therefore, it should wait until the system is up again. For example:</p> <pre>snmpset -v2c -c private -m all 172.17.50.100 RUCKUS-CTRL-MIB::ruckusCTRLSysCmdReboot.0 i run-reboot</pre>								

Claim 8											
<p>an interface that communicates values of the at least one operational parameter between the Web server and the intelligent agent in accordance with the predetermined data structure,</p>	<p>Below is a further example of the intelligent agent interacting with the network entity in accordance with a MIB data structure.</p> <div style="border: 1px solid black; padding: 10px; margin: 10px 0;"> <p style="color: #ff8c00; font-weight: bold;">ruckusSZSystemMiscEventTrap</p> <p>TABLE 4 ruckusSZSystemMiscEventTrap</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="background-color: #ffcc99;">Object Name</td><td>ruckusSZSystemMiscEventTrap</td></tr> <tr> <td>Object Identifier</td><td>.1.3.6.1.4.1.25053.2.11.1.1</td></tr> <tr> <td>Bindings</td><td>ruckusSZEEventSeverity ruckusSZEEventCode ruckusSZEEventType ruckusSZEEventDescription</td></tr> <tr> <td>Description</td><td>Generic trap triggered by administrator specified miscellaneous event. The event severity, event code, event type, event description are displayed.</td></tr> <tr> <td>Generated by Event Code</td><td>Refer to <a href="#">SmartZone Event Traps</a> on page 257 - <a href="#">ruckusSZSystemMiscEventTrap</a> on page 257</td></tr> </table> </div> <p>Source: SmartZone SNMP Reference Guide, p. 49.</p>	Object Name	ruckusSZSystemMiscEventTrap	Object Identifier	.1.3.6.1.4.1.25053.2.11.1.1	Bindings	ruckusSZEEventSeverity ruckusSZEEventCode ruckusSZEEventType ruckusSZEEventDescription	Description	Generic trap triggered by administrator specified miscellaneous event. The event severity, event code, event type, event description are displayed.	Generated by Event Code	Refer to <a href="#">SmartZone Event Traps</a> on page 257 - <a href="#">ruckusSZSystemMiscEventTrap</a> on page 257
Object Name	ruckusSZSystemMiscEventTrap										
Object Identifier	.1.3.6.1.4.1.25053.2.11.1.1										
Bindings	ruckusSZEEventSeverity ruckusSZEEventCode ruckusSZEEventType ruckusSZEEventDescription										
Description	Generic trap triggered by administrator specified miscellaneous event. The event severity, event code, event type, event description are displayed.										
Generated by Event Code	Refer to <a href="#">SmartZone Event Traps</a> on page 257 - <a href="#">ruckusSZSystemMiscEventTrap</a> on page 257										

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<p><b>wherein the Web server provides the interactive environment using the Web pages generated by a Web page generator, the Web page generator generating a set of linked Web pages in response to a request to carry out a procedure, wherein each Web page of the set of linked Web pages being based upon the data stored in the data store and corresponding to at least one step in the procedure to manage the at least one operational parameter of the network entity, and</b></p>	<p>The Ruckus systems utilize a web server (e.g. the server that host the web interface) which provides the interactive environment using web pages (e.g. the user interface is presented via a web browser using web pages) generated by a web page generator.</p> <p><b>FIGURE 1 Controller Web Interface Features</b></p>

Source: SmartZone Administrator Guide at p. 17

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<p>wherein the Web server provides the interactive environment using the Web pages generated by a Web page generator, the Web page generator generating a set of linked Web pages in response to a request to carry out a procedure, wherein each Web page of the set of linked Web pages being based upon the data stored in the data store and corresponding to at least one step in the procedure to manage the at least one operational parameter of the network entity, and</p>	<p>The web page generator generates a set of linked webpages (e.g. the web pages to be sent to a user's browser) in response to a request to carry out a procedure (e.g. a user's request to obtain data or manage/configure a device). Each web page of the set of linked web pages is based upon data stored in the data store (e.g. menu's and configuration data displayed in the interface for a particular device will be based on device data stored in a data store such as an MIB) and corresponds to at least one step in the procedure to manage the at least one operation parameter of the network entity (e.g. the webpage is tied to management or configuration functions).</p> <div data-bbox="462 544 1787 1239"> <p><b>FIGURE 1 Controller Web Interface Features</b></p> </div> <p>Source: SmartZone Administrator Guide at p. 17</p>

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<p>wherein the interface uses the stored data relating to the procedure for managing the at least one operational parameter of the network entity to generate a determination result indicating whether values to be communicated to the intelligent agent from the Web server conform to a rule relating to the procedure for managing the at least one operational parameter of the network entity, and</p>	<p>The interface uses the stored data (e.g. data in a MIB) relating to the procedure for managing the at least one operation parameter of the network entity (e.g. configuring or initiating an SNMP based command) to generate a determination result indicating whether values to be communicated to the intelligent agent conform to a rule. For example, when the information does not conform to a rule, the web interface may display an error message or generate an error routine.</p> <div data-bbox="654 515 1474 1249" style="border: 1px solid black; padding: 10px;"> <p><b>Configuring SNMP v3 Agent</b></p> <ol style="list-style-type: none"> <li>1. Go to System &gt; General Settings &gt; SNMP Agent.</li> <li>2. Select the <b>Enable SNMP Notifications Globally</b> check box to send out notification messages.</li> <li>3. To configure the SNMPv3 Agent, click <b>Create</b> and update the details as explained in the following table.</li> </ol> <p><b>TABLE 6 SNMPv3 Agent Settings</b></p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr style="background-color: #f2f2f2;"> <th style="text-align: left; padding: 2px;">Field</th> <th style="text-align: left; padding: 2px;">Description</th> <th style="text-align: left; padding: 2px;">Your Action</th> </tr> </thead> <tbody> <tr> <td style="padding: 2px;">Community</td> <td style="padding: 2px;">Indicates that applications which send SNMP Get Requests to the controller (to retrieve information) will need to send this string along with the request before they will be allowed access.</td> <td style="padding: 2px;">Enter a name.</td> </tr> <tr> <td style="padding: 2px;">Authentication</td> <td style="padding: 2px;">Indicates the authentication method.</td> <td style="padding: 2px;">           Choose the required option:           <ul style="list-style-type: none"> <li>• <b>None</b>—Use no authentication.</li> <li>• <b>SHA</b>—Secure Hash Algorithm, message hash function with 160-bit output.               <ol style="list-style-type: none"> <li>1. Enter the <b>Auth Pass Phrase</b>.</li> <li>2. Choose the <b>Privacy</b> option.                   <ul style="list-style-type: none"> <li>– <b>None</b>: Use no privacy method.</li> <li>– <b>DES</b>: Data Encryption Standard, data block cipher.</li> <li>– <b>AES</b>: Advanced Encryption Standard, data block cipher.</li> </ul> </li> <li>3. <b>Enter a Privacy Phrase, 8 through 32 characters.</b></li> </ol> </li> <li>• <b>MD5</b>—Message Digest algorithm 5, message hash function with 128-bit output.               <ol style="list-style-type: none"> <li>1. Enter the <b>Auth Pass Phrase</b>.</li> <li>2. Choose the <b>Privacy</b> option.                   <ul style="list-style-type: none"> <li>– <b>None</b>: Use no privacy method.</li> <li>– <b>DES</b>: Data Encryption Standard, data block cipher.</li> <li>– <b>AES</b>: Advanced Encryption Standard, data block cipher.</li> </ul> </li> <li>3. <b>Enter a Privacy Phrase, 8 through 32 characters.</b></li> </ol> </li> </ul> </td> </tr> </tbody> </table> </div> <p>Source: SmartZone Administrator Guide at p. 43</p>	Field	Description	Your Action	Community	Indicates that applications which send SNMP Get Requests to the controller (to retrieve information) will need to send this string along with the request before they will be allowed access.	Enter a name.	Authentication	Indicates the authentication method.	Choose the required option: <ul style="list-style-type: none"> <li>• <b>None</b>—Use no authentication.</li> <li>• <b>SHA</b>—Secure Hash Algorithm, message hash function with 160-bit output.               <ol style="list-style-type: none"> <li>1. Enter the <b>Auth Pass Phrase</b>.</li> <li>2. Choose the <b>Privacy</b> option.                   <ul style="list-style-type: none"> <li>– <b>None</b>: Use no privacy method.</li> <li>– <b>DES</b>: Data Encryption Standard, data block cipher.</li> <li>– <b>AES</b>: Advanced Encryption Standard, data block cipher.</li> </ul> </li> <li>3. <b>Enter a Privacy Phrase, 8 through 32 characters.</b></li> </ol> </li> <li>• <b>MD5</b>—Message Digest algorithm 5, message hash function with 128-bit output.               <ol style="list-style-type: none"> <li>1. Enter the <b>Auth Pass Phrase</b>.</li> <li>2. Choose the <b>Privacy</b> option.                   <ul style="list-style-type: none"> <li>– <b>None</b>: Use no privacy method.</li> <li>– <b>DES</b>: Data Encryption Standard, data block cipher.</li> <li>– <b>AES</b>: Advanced Encryption Standard, data block cipher.</li> </ul> </li> <li>3. <b>Enter a Privacy Phrase, 8 through 32 characters.</b></li> </ol> </li> </ul>
Field	Description	Your Action								
Community	Indicates that applications which send SNMP Get Requests to the controller (to retrieve information) will need to send this string along with the request before they will be allowed access.	Enter a name.								
Authentication	Indicates the authentication method.	Choose the required option: <ul style="list-style-type: none"> <li>• <b>None</b>—Use no authentication.</li> <li>• <b>SHA</b>—Secure Hash Algorithm, message hash function with 160-bit output.               <ol style="list-style-type: none"> <li>1. Enter the <b>Auth Pass Phrase</b>.</li> <li>2. Choose the <b>Privacy</b> option.                   <ul style="list-style-type: none"> <li>– <b>None</b>: Use no privacy method.</li> <li>– <b>DES</b>: Data Encryption Standard, data block cipher.</li> <li>– <b>AES</b>: Advanced Encryption Standard, data block cipher.</li> </ul> </li> <li>3. <b>Enter a Privacy Phrase, 8 through 32 characters.</b></li> </ol> </li> <li>• <b>MD5</b>—Message Digest algorithm 5, message hash function with 128-bit output.               <ol style="list-style-type: none"> <li>1. Enter the <b>Auth Pass Phrase</b>.</li> <li>2. Choose the <b>Privacy</b> option.                   <ul style="list-style-type: none"> <li>– <b>None</b>: Use no privacy method.</li> <li>– <b>DES</b>: Data Encryption Standard, data block cipher.</li> <li>– <b>AES</b>: Advanced Encryption Standard, data block cipher.</li> </ul> </li> <li>3. <b>Enter a Privacy Phrase, 8 through 32 characters.</b></li> </ol> </li> </ul>								

Claim 8	
<p>wherein the interface communicates values from the Web server to the intelligent agent in response to the determination result indicating conformance.</p>	<p>The interface communicates values (e.g., values associated with enabling/disabling an SNMP trap or configuring other SNMP-related settings) from the Web server to the intelligent agent (e.g., the SNMP agent) in response to the determination result indicating conformance (e.g. after confirming that any user input conforms to any rules, the data inputted will be communicated to an SNMP agent on the device for further processing). If the information has been entered correctly (i.e. "in conformance"), an error message may not appear or an "OK" button may be available, allowing communication of the values.</p> <div data-bbox="545 678 1735 875" style="border: 1px solid black; padding: 10px;"><p><b>NOTE</b> You can also edit or delete an SNMPv3 agent. To do so, select the SNMPv3 agent from the list and click <a href="#">Configure</a> or <a href="#">Delete</a> respectively.</p><p>4. <a href="#">Click OK.</a></p></div> <p>Source: SmartZone Administrator Guide at p. 44</p>